

MON-0345.ST25.txt
SEQUENCE LISTING

<110> Li, Xia
Li, Weihua
Reed, Danielle R.
Bachmanov, Alexander A.
Brand, Joseph G.

<120> TASTE RECEPTORS OF THE T1R FAMILY FROM DOMESTIC CAT

<130> MON-0345

<140> US 10/591,360
<141> 2004-05-13

<150> PCT/US2004/015136
<151> 2004-05-13

<150> US 60/554,751
<151> 2004-03-19

<150> US 60/482,992
<151> 2003-06-27

<160> 99

<170> PatentIn version 3.3

<210> 1
<211> 2569
<212> DNA
<213> Felis catus

<400> 1
atgcccggcc tcgctctcct gggcctcacg gctctcctgg gcctcacggc tctcttggac 60
cacggggagg ggcacacgtc ctgtttgtca cagcagctca ggatgcaggg ggactatgtg 120
ctgggtgggc tcttccctct gggctctgcc gagggtacag gtcttggcga cgggctgcag 180
cccaatgcca ccgtgtgcac caggttctcg tctctgggcc tgctctggc gctggccgtg 240
aagatggcgg tggaggagat caacaacggg tcggccctgc tgcccggtgc gcacctggc 300
tatgacctct ttgacacgtg ttcagagccc atggtgccca tgaagcccag cctcgtttc 360
atggccaaag caggcagctg cagcattgcc gcctactgca attacacaca gtaccagccc 420
cgcgtgctgg ccgtcatcg gccccactcg tctgagctcg ccctcgtcac cggcaagtgc 480
ttcagcttct tccttgtgcc tcaggtcagc tacggcgcca gcaccgaccg gctgagcaac 540
cgggagatct tcccgtcctt cttccgcacg gtgcccagcg accaggtgca ggtggcggcc 600
atggtgagc tgctggagga gctcggtgg aactgggtgg cggcggtgg tagtgacgac 660
gagtagtgcc ggcagggcct gagcctttc tccggcctgg ccagcgccag gggcatctgc 720
atcgcgcatg agggcctggt gccactgccc ccaggcagcc tgccgtggg cgccctacag 780
ggcctgctgc gccagggtgaa ccagagcagc gtgcagggtgg tggtgctgtt ctccctccgc 840
cacgcggccc gcaccctctt cagctacagc atccgctgca agctctcacc caagggtgtgg 900
gtggccagcg aggccctggct gacccatgac ctggtcatga cgctgcccgg catgcctggg 960
gtgggcaccg tgctggcctt cctgcagcag ggcgcggccga tgccggagtt cccatcctac 1020

MON-0345.ST25.txt

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|------------|------|
| gtgcggaccc | gcctggccct | ggccgctgac | cctgccttct | gcccctcgct | ggacgctgaa | 1080 |
| cagccaggcc | tggaggagca | cgtggtgaaa | ccacgctgcc | ccaaatgtga | ccacgtcacg | 1140 |
| ctagagaacc | tatctgcggg | gctgctgcac | caccagacct | tcgctgccta | cgcggctgt | 1200 |
| tatggcgtgg | cccaagccct | tcacaacaca | ctgcgctgca | atgcctcgaa | ctgccccagg | 1260 |
| cgggagcctg | tgccggccctg | gcagctccta | gagaacatgt | acaacgtgag | cttccgtct | 1320 |
| cgcggcctgg | cactgcagtt | cgacgcccagc | gggaacgtga | acgtggattt | cgaccgtaaa | 1380 |
| ctgtgggtgt | ggcaggaccc | gacgcccagc | ctgcgcaccg | taggcacctt | caagggccgc | 1440 |
| ctggagctct | ggcgctctca | gatgtgctgg | cacacgccgg | ggaaggcagca | gcccgtgtcc | 1500 |
| cagtgcctcc | ggcagtgc当地 | ggaaggccag | gtgcgcgc当地 | tgaagggctt | ccactcttgc | 1560 |
| tgttacaact | gcgtggactg | caaggcgggc | agttatcagc | gcaaccaga | tgaccctc当地 | 1620 |
| tgcacccagt | gtgaccagga | ccagtggtcc | ccagaccgga | gcacacgctg | cttcgccc当地 | 1680 |
| aagcccatgt | tcctggcatg | gggggagcca | gctgtgctgc | tactgctc当地 | gctgctggct | 1740 |
| ctggcgctgg | gcctggcgct | ggcagccctg | gggctttcc | tctggcactc | ggacagcccg | 1800 |
| ctgggtcagg | cctcaggtgg | gccacgggccc | tgctttggcc | tggcttgccc | gggcctggcc | 1860 |
| tgcctcagtg | tcctcctgtt | ccctggccag | ccaggccctg | ccagctgc当地 | ggcccagcag | 1920 |
| ccactgttcc | acctcccact | cactggctgc | ctgagcacgt | ttttcctgca | agcggccag | 1980 |
| atatttgtgg | ggtcggagct | gccaccaagc | tgggctgaga | agatgcgtgg | ccgcctgc当地 | 2040 |
| gggccttggg | cctggctgg | ggtgctgctt | gctatgtgg | cagaagccgc | attgtgtgcc | 2100 |
| tggcacctgg | tagccttccc | gccagaggtg | gtgacggact | ggcgggtact | gcccacagag | 2160 |
| gcfctggtgc | actgccacgt | gcactcctgg | atcagcttc当地 | gcctggtgca | tgccactaac | 2220 |
| gccatgctgg | cttcctctg | cttcctggcc | actttcctgg | tgcagagccg | gccaggccgc | 2280 |
| tacaatggtg | cccgccggcct | cacctttgcc | atgctggcct | acttcatacac | ctggatctcc | 2340 |
| tttgtcccc | tcttgccaa | tgtcacgtg | gcctaccagc | ctgccgtgca | gatgggcacc | 2400 |
| atcctcctct | gtgccttggg | tatccctagcc | accttccacc | tgcccaagtg | ctacctgctg | 2460 |
| ctgcagccgc | cggagctcaa | cacccctgag | ttcttcctgg | aagacaatgc | cagagcacag | 2520 |
| ggcagcagtt | gggggcaggg | gaggggagaa | tcggggcaaa | aacaagtga | | 2569 |

<210> 2
<211> 865
<212> PRT
<213> Felis catus

<400> 2

Met Pro Gly Leu Ala Leu Leu Gly Leu Thr Ala Leu Leu Gly Leu Thr
1 5 10 15

Ala Leu Leu Asp His Gly Glu Gly Ala Thr Ser Cys Leu Ser Gln Gln
20 25 30

MON-0345.ST25.txt

Leu Arg Met Gln Gly Asp Tyr Val 35 Leu Gly Gly Leu Phe Pro Leu Gly 40
 45

Ser Ala Glu Gly Thr Gly Leu Gly Asp Gly Leu Gln 50 Pro Asn Ala Thr 55
 60

Val Cys Thr Arg Phe Ser Ser Leu Gly Leu Leu Trp Ala Leu Ala Val 65 70 75 80

Lys Met Ala Val Glu Glu Ile Asn Asn Gly Ser Ala Leu Leu Pro Gly 85 90 95

Leu His Leu Gly Tyr Asp Leu Phe Asp Thr Cys Ser Glu Pro Met Val 100 105 110

Ala Met Lys Pro Ser Leu Val Phe Met Ala Lys Ala Gly Ser Cys Ser 115 120 125

Ile Ala Ala Tyr Cys Asn Tyr Thr Gln Tyr Gln Pro Arg Val Leu Ala 130 135 140

Val Ile Gly Pro His Ser Ser Glu Leu Ala Leu Val Thr Gly Lys Phe 145 150 155 160

Phe Ser Phe Phe Leu Val Pro Gln Val Ser Tyr Gly Ala Ser Thr Asp 165 170 175

Arg Leu Ser Asn Arg Glu Ile Phe Pro Ser Phe Phe Arg Thr Val Pro 180 185 190

Ser Asp Gln Val Gln Val Ala Ala Met Val Glu Leu Leu Glu Glu Leu 195 200 205

Gly Trp Asn Trp Val Ala Ala Val Gly Ser Asp Asp Glu Tyr Gly Arg 210 215 220

Gln Gly Leu Ser Leu Phe Ser Gly Leu Ala Ser Ala Arg Gly Ile Cys 225 230 235 240

Ile Ala His Glu Gly Leu Val Pro Leu Pro Pro Gly Ser Leu Arg Leu 245 250 255

Gly Ala Leu Gln Gly Leu Leu Arg Gln Val Asn Gln Ser Ser Val Gln 260 265 270

Val Val Val Leu Phe Ser Ser Ala His Ala Ala Arg Thr Leu Phe Ser 275 280 285

Tyr Ser Ile Arg Cys Lys Leu Ser Pro Lys Val Trp Val Ala Ser Glu 290 295 300

MON-0345.ST25.txt

Ala Trp Leu Thr Ser Asp Leu Val Met Thr Leu Pro Gly Met Pro Gly
 305 310 315 320

Val Gly Thr Val Leu Gly Phe Leu Gln Gln Gly Ala Pro Met Pro Glu
 325 330 335

Phe Pro Ser Tyr Val Arg Thr Arg Leu Ala Leu Ala Ala Asp Pro Ala
 340 345 350

Phe Cys Ala Ser Leu Asp Ala Glu Gln Pro Gly Leu Glu Glu His Val
 355 360 365

Val Gly Pro Arg Cys Pro Gln Cys Asp His Val Thr Leu Glu Asn Leu
 370 375 380

Ser Ala Gly Leu Leu His His Gln Thr Phe Ala Ala Tyr Ala Ala Val
 385 390 395 400

Tyr Gly Val Ala Gln Ala Leu His Asn Thr Leu Arg Cys Asn Ala Ser
 405 410 415

Gly Cys Pro Arg Arg Glu Pro Val Arg Pro Trp Gln Leu Leu Glu Asn
 420 425 430

Met Tyr Asn Val Ser Phe Arg Ala Arg Gly Leu Ala Leu Gln Phe Asp
 435 440 445

Ala Ser Gly Asn Val Asn Val Asp Tyr Asp Leu Lys Leu Trp Val Trp
 450 455 460

Gln Asp Pro Thr Pro Glu Leu Arg Thr Val Gly Thr Phe Lys Gly Arg
 465 470 475 480

Leu Glu Leu Trp Arg Ser Gln Met Cys Trp His Thr Pro Gly Lys Gln
 485 490 495

Gln Pro Val Ser Gln Cys Ser Arg Gln Cys Lys Glu Gly Gln Val Arg
 500 505 510

Arg Val Lys Gly Phe His Ser Cys Cys Tyr Asn Cys Val Asp Cys Lys
 515 520 525

Ala Gly Ser Tyr Gln Arg Asn Pro Asp Asp Leu Leu Cys Thr Gln Cys
 530 535 540

Asp Gln Asp Gln Trp Ser Pro Asp Arg Ser Thr Arg Cys Phe Ala Arg
 545 550 555 560

Lys Pro Met Phe Leu Ala Trp Gly Glu Pro Ala Val Leu Leu Leu Leu
 565 570 575

MON-0345.ST25.txt

Ala Leu Leu Ala Leu Ala Leu Gly Leu Ala Leu Ala Ala Leu Gly Leu
 580 585 590

Phe Leu Trp His Ser Asp Ser Pro Leu Val Gln Ala Ser Gly Gly Pro
 595 600 605

Arg Ala Cys Phe Gly Leu Ala Cys Leu Gly Leu Val Cys Leu Ser Val
 610 615 620

Leu Leu Phe Pro Gly Gln Pro Gly Pro Ala Ser Cys Leu Ala Gln Gln
 625 630 635 640

Pro Leu Phe His Leu Pro Leu Thr Gly Cys Leu Ser Thr Phe Phe Leu
 645 650 655

Gln Ala Ala Glu Ile Phe Val Gly Ser Glu Leu Pro Pro Ser Trp Ala
 660 665 670

Glu Lys Met Arg Gly Arg Leu Arg Gly Pro Trp Ala Trp Leu Val Val
 675 680 685

Leu Leu Ala Met Leu Ala Glu Ala Ala Leu Cys Ala Trp Tyr Leu Val
 690 695 700

Ala Phe Pro Pro Glu Val Val Thr Asp Trp Arg Val Leu Pro Thr Glu
 705 710 715 720

Ala Leu Val His Cys His Val His Ser Trp Ile Ser Phe Gly Leu Val
 725 730 735

His Ala Thr Asn Ala Met Leu Ala Phe Leu Cys Phe Leu Gly Thr Phe
 740 745 750

Leu Val Gln Ser Arg Pro Gly Arg Tyr Asn Gly Ala Arg Gly Leu Thr
 755 760 765

Phe Ala Met Leu Ala Tyr Phe Ile Thr Trp Ile Ser Phe Val Pro Leu
 770 775 780

Phe Ala Asn Val His Val Ala Tyr Gln Pro Ala Val Gln Met Gly Thr
 785 790 795 800

Ile Leu Leu Cys Ala Leu Gly Ile Leu Ala Thr Phe His Leu Pro Lys
 805 810 815

Cys Tyr Leu Leu Leu Gln Arg Pro Glu Leu Asn Thr Pro Glu Phe Phe
 820 825 830

Leu Glu Asp Asn Ala Arg Ala Gln Gly Ser Ser Trp Gly Gln Gly Arg
 835 840 845

MON-0345.ST25.txt

Gly Glu Ser Gly Gln Lys Gln Val Thr Pro Asp Pro Val Thr Ser Pro
 850 855 860

Gln
 865

<210> 3
 <211> 2532
 <212> DNA
 <213> Mus musculus

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| <400> | 3 | | | | | |
| atgggacccc | aggcgaggac | actccatttg | ctgtttctcc | tgctgcattgc | tctgcctaag | 60 |
| ccagtcattgc | tggttagggaa | ctccgacttt | cacctggctg | gggactacct | cctgggtggc | 120 |
| ctcttaccc | tccatgccaa | cgtgaagagc | gtctctcacc | tcaagctaccc | gcagggtgcc | 180 |
| aagtgcattg | agtacaacat | gaaggtcttg | ggctacaacc | tcatgcaggc | catgcgattc | 240 |
| gccgtggagg | aatcaacaa | ctgttagctct | ctgctgccc | gcgtgctgct | cggttacgag | 300 |
| atgggtggatg | tctgctaccc | ctccaacaat | atccagcctg | ggctctactt | cctgtcacag | 360 |
| atacatgact | tcctgccc | cctcaaagac | tacagccagt | acaggcccc | agtgggtggcc | 420 |
| gtcattggcc | cagacaactc | tgagtcgc | atcaccgtgt | ccaacattct | ctcctacttc | 480 |
| ctcgtgccac | aggtcacata | taggcacatc | accgacaagc | tgcgagacaa | gcggcgcttc | 540 |
| cctgcatgc | tgcgcactgt | gcccagcgcc | acccaccaca | tcgaggccat | ggtgcaactg | 600 |
| atgggttca | tccagtggaa | ctggatcgtg | gtgctgggtg | gcgtatgacg | ttatggccga | 660 |
| gagaacagcc | acctgctgag | ccagcgtctg | accaacactg | gcgtatctg | cattgccttc | 720 |
| caggaggttc | tgcctgtacc | agaaccaac | caggccgtga | ggcctgagga | gcaggaccaa | 780 |
| ctggacaaca | tcctggacaa | gctgcggcg | acctcggcgc | gtgtgggtgt | gatattctcg | 840 |
| ccagagctga | gcctgcacaa | cttctccgc | gaggtgctgc | gctggaaactt | cacaggcttt | 900 |
| gtgtggattg | cctctgagtc | ctggccatc | gaccctgttc | tacacaaccc | cacagagctg | 960 |
| cgccacacgg | gcactttct | ggcggtcacc | atccagaggg | tgtccatccc | tggcttcagc | 1020 |
| cagttccgag | tgcgcacga | caagccagag | tatccatgc | ctaacgagac | cagcctgagg | 1080 |
| actacctgta | accaggactg | tgacgcctgc | atgaacatca | ccgagtcctt | taacaacgtt | 1140 |
| ctcatgctt | cggggagcg | tgttgtctac | agtgtgtact | cggccgtcta | cgcggtagcc | 1200 |
| cacaccctcc | acagactcct | ccactgcaac | caggtccgct | gcaccaagca | aatcgcttat | 1260 |
| ccatggcagc | tactcaggg | gatctggcat | gtcaacttca | cgctcctgg | caaccagctc | 1320 |
| ttcttcgacg | aacaagggga | catgccatg | ctcctggaca | tcatccagtg | gcaatggggc | 1380 |
| ctgagccaga | accccttcca | aagcatcgcc | tcctactccc | ccaccgagac | gaggctgacc | 1440 |
| tacattagca | atgtgtcctg | gtacacccccc | aacaacacgg | tcccccata | catgtgttct | 1500 |
| aagagttgcc | agcctggca | aataaaaaaa | cccataggcc | tccacccgt | ctgcttcgag | 1560 |
| tgtgtggact | gtccgcccgg | cacccatctc | aaccgatcag | tagatgagtt | taactgtctg | 1620 |

MON-0345.ST25.txt

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| tcctgccccg | gttccatgtg | gtcttacaag | aacaacatcg | cttgcttcaa | gcggcggctg | 1680 |
| gccttcctgg | agtggcacga | agtcccact | atcgtggtga | ccatcctggc | cgcctgggc | 1740 |
| ttcatcagta | cgctggccat | tctgctcatc | ttctggagac | atttccagac | gcccatggtg | 1800 |
| cgctcggcgg | gcggcccat | gtgcttcctg | atgctggtgc | ccctgctgct | ggcgttcggg | 1860 |
| atggtccccg | tgtatgtggg | cccccccacg | gtcttcctt | gtttctgccc | ccaggcttc | 1920 |
| ttcaccgtt | gcttctccgt | ctgcctctcc | tgcacacgg | tgcgtccct | ccagattgtg | 1980 |
| tgcgtttca | agatggccag | acgcctgcca | agcgcctacg | gtttctggat | gcgttaccac | 2040 |
| gggcctacg | tcttgtggc | ttcatacag | gccgtcaagg | tggccctgg | ggcaggcaac | 2100 |
| atgctggcca | ccaccatcaa | ccccattggc | cggaccgacc | ccgatgaccc | aatatcata | 2160 |
| atcctctcct | gccaccctaa | ctaccgcaac | gggctactct | tcaacaccag | catggacttg | 2220 |
| ctgctgtccg | tgctgggaaa | cagttcgcg | tacgtggca | aggaactgcc | caccaactac | 2280 |
| aacgaagcca | agttcatcac | cctcagcatg | accttcctt | tcacccctc | catccctc | 2340 |
| tgcacgttca | tgtctgtcca | cgtggcgtg | ctggcacca | tcatggatct | cctggtcact | 2400 |
| gtgctcaact | ttctggccat | cggctgggg | tactttggcc | ccaagtgtt | catgatcctt | 2460 |
| ttctaccgg | agcgcaacac | ttcagtttat | ttcaatagca | tgattcaggg | ctacacgatg | 2520 |
| aggaagagct | ag | | | | | 2532 |

<210> 4
<211> 2529
<212> DNA
<213> Rattus rattus

| | | | | | | | |
|---------|-------------|-------------|------------|------------|-------------|------------|-----|
| <400> 4 | atgggtcccc | aggcaaggac | actctgcttg | ctgtctctcc | tgctgcatgt | tctgcctaag | 60 |
| | ccaggcaagc | tggtagagaa | ctctgacttc | cacctggccg | gggactacct | cctgggtggc | 120 |
| | ctcttaccc | tccatgccaa | cgtgaagagc | atctcccacc | tcaagctacct | gcaggtgccc | 180 |
| | aagtcaatg | agttcaccat | gaaggtgttg | ggctacaacc | tcatgcaggc | catcgtttc | 240 |
| | gctgtggagg | agatcaacaa | ctgtagctcc | ctgctacccg | gcgtgctgct | cggctacgag | 300 |
| | atggtggatg | tctgttacct | ctccaacaat | atccaccctg | ggctctactt | cctggcacag | 360 |
| | gacgacgacc | tcctgcccatt | cctcaaagac | tacagccagt | acatgcccc | cgtggggct | 420 |
| | gtcattggcc | ccgacaactc | tgagtccgcc | attaccgtgt | ccaacattct | ctctcatttc | 480 |
| | ctcatcccac | agatcacata | cagcgccatc | tccgacaagc | tgcgggacaa | gcggcacttc | 540 |
| | cctagcatgc | tacgcacagt | gcccagcgcc | acccaccaca | tcgaggccat | ggtgcagctg | 600 |
| | atggttcaact | tccaatggaa | ctggattgtg | gtgctggtga | gchgacgacga | ttacggccgc | 660 |
| | gagaacagcc | acctgttgag | ccagcgtctg | accaaaacga | gchacatctg | cattgccttc | 720 |
| | caggagggttc | tgcccatacc | tgagtccagc | caggtcatga | ggtccgagga | gcagagacaa | 780 |
| | ctggacaaca | tcctggacaa | gctgcggcgg | acctcggcgc | gcgtcgtgg | ggtgttctcg | 840 |
| | cccgagctga | gcctgtatag | cttcttcac | gaggtgctcc | gctggaactt | cacgggtttt | 900 |

MON-0345.ST25.txt

| | |
|---|------|
| gtgtggatcg cctctgagtc ctgggctatc gacccagttc tgcataacct cacggagctg | 960 |
| cgccacacgg gtactttct gggcgtcacc atccagaggg tgtccatccc tggcttcagt | 1020 |
| cagttccgag tgccgcgtga caagccaggg tatcccggtc ctaacacgac caacctgcgg | 1080 |
| acgacacctgca accaggactg tgacgcctgc ttgaacacca ccaagtcctt caacaacatc | 1140 |
| cttatacttt cgggggagcg cgtggctcac agcgtgtact cgccagttt cgcggtgcc | 1200 |
| catgccctcc acagactcct cggctgtaac cgggtccgct gcaccaagca aaaggctac | 1260 |
| ccgtggcagc tactcaggg aatctggcac gtcaacttca cgctcctggg taaccggctc | 1320 |
| ttctttgacc aacaagggga catgccatg ctcttgaca tcatccagtg gcagtggac | 1380 |
| ctgagccaga atcccttcca aagcatcgcc tcctattctc ccaccagcaa gaggctaacc | 1440 |
| tacattaaca atgtgtcctg gtacaccccc aacaacacgg tccctgtctc catgtgtcc | 1500 |
| aagagctgcc agccagggca aataaaaaag tctgtggcc tccacccttg ttgcttcag | 1560 |
| tgcttggatt gtatgccagg cacctacctc aaccgcttag cagatgagtt taactgtctg | 1620 |
| tcctgcccgg gttccatgtg gtcctacaag aacgacatca cttgcttcca gcggcggcct | 1680 |
| accttcctgg agtggcacga agtcccacc atcgtggtg ccatactggc tgccctggc | 1740 |
| ttcttcagta cactggccat tctttcattc ttctggagac atttccagac acccatggtg | 1800 |
| cgctcggccg gtggcccat gtgcttcctg atgctcgatc ccctgctgct ggcgtttggg | 1860 |
| atggtgcccg tgtatgtggg gccccccacg gtcttcat gcttctgccc acaggcttc | 1920 |
| ttcaccgtct gcttctccat ctgcctatcc tgcattaccg tgcgtccctt ccagatcgtg | 1980 |
| tgtgtctca agatggccag acgcctgcca agtgcctaca gttttggat gcgttaccac | 2040 |
| gggcctatg tcttcgtggc cttcatcagc gccatcaagg tggccctgg ggtggcaac | 2100 |
| atgctggcca ccaccatcaa cccattggc cggaccgacc cggatgaccc caacatcatg | 2160 |
| atcctctcgt gccaccctaa ctaccgcaac gggctactgt tcaacaccag catggacttg | 2220 |
| ctgctgtctg tgctgggaaa cagttcgct tacatggca aggagctgcc caccaactac | 2280 |
| aacgaagcca agttcatcac tctcagcatg accttctcct tcacccctc catctccctc | 2340 |
| tgcacccatca tgtctgtca cgacggcgtg ctggcacca tcatggaccc cctggtcact | 2400 |
| gtgctcaact tcctggccat cggcttggaa tactttggcc ccaagtgatc catgatcctt | 2460 |
| ttctaccgg agcgcaacac ctcaagcttat ttcaatagca tgatccaggg ctacaccatg | 2520 |
| aggaagagc | 2529 |

<210> 5
<211> 2520
<212> DNA
<213> Homo sapiens

| | |
|--|-----|
| <400> 5 atggggccca gggcaaagac catctgctcc ctgttcttcc tcctatgggt cctggctgag | 60 |
| ccggctgaga actcggactt ctacccgtt gggattacc tcctgggtgg cctcttctcc | 120 |

| MON-0345.ST25.txt | |
|-------------------|---|
| ctccatgcc | acatgaaggg cattgttcac cttacttcc tgcagggtgcc catgtgcaag |
| gagtatgaag | tgaaggtgat aggctacaac ctcatgcagg ccatgcgctt cgcggtggag |
| gagatcaaca | atgacagcag cctgctgcct ggtgtgctgc tgggctatga gatgtggat |
| gtgtgctaca | tctccaacaa tgtccagccg gtgctctact tcctggcaca cgaggacaac |
| ctccttccc | tccaagagga ctacagtaac tacattccc gtgtggtggc tgtcattggc |
| cctgacaact | ccgagtctgt catgactgtg gccaaacttcc tctccctatt tctccttcca |
| cagatcacct | acagcgccat cagcgatgag ctgcgagaca aggtgcgctt cccggcttg |
| ctgcgtacca | cacccagcgc cgaccaccac gtcgaggcca tggtgagct gatgtgcac |
| ttccgctgga | actggatcat tgtgctggtg agcagcgaca cctatggccg cgacaatggc |
| cagctgcttgc | gcgagcgcgt ggcccggcgc gacatctgca tcgccttcca ggagacgctg |
| cccacactgc | agcccaacca gaacatgacg tcagaggagc gccagcgcct ggtgaccatt |
| gtggacaagc | tgcagcagag cacagcgcgc gtcgtggtcg tttctcgcc cgacctgacc |
| ctgtaccact | tcttcaatga ggtgctgcgc cagaacttca cgggcgcgt gtggatcgcc |
| tccgagtcc | ggccatcga cccggtcctg cacaacctca cggagctggg ccacttggc |
| accttcctgg | gcatcaccat ccagagcgtg cccatcccgg gcttcagtga gttccgcgag |
| tggggcccac | aggctggcc gccacccctc agcaggacca gccagagcta tacctgcaac |
| caggagtgcg | acaactgcct gaacgccacc ttgtccttca acaccattct caggctct |
| ggggagcgtg | tcgtctacag cgtgtactct gcggcttatg ctgtggccca tgccctgcac |
| agcctcctcg | gctgtgacaa aagcacctgc accaagaggg tggtctaccc ctggcagctg |
| cttgaggaga | tctggaaggt caacttcaact ctcctggacc accaaatctt cttcgacccg |
| caaggggacg | tggctctgca cttggagatt gtccagtggc aatgggaccc gagccagaat |
| cccttccaga | gcgtgcctc ctactacccc ctgcagcgcac agctgaagaa catccaagac |
| atctcctggc | acaccgtcaa caacacgatc cctatgtcca tgtgttccaa gaggtgccag |
| tcagggcaaa | agaagaagcc tgtggcattc cacgtctgct gcttcagtg catgactgc |
| cttccggca | cttccctcaa ccacactgaa gatgaatatg aatgccaggc ctgcccgaat |
| aacgagtgg | cctaccagag tgagacctcc tgcttaagc ggcagctgg cttcctggaa |
| tggcatgagg | cacccaccat cgctgtggcc ctgctggccg ccctgggctt ctcagcacc |
| ctggccatcc | tggtgatatt ctggaggcac ttccagacac ccatagttcg ctggctggg |
| ggccccatgt | gcttcctgat gctgacactg ctgctggtg catacatggt ggtcccggt |
| tacgtgggc | cgcccaaggt ctccacctgc ctctgccc aggcccttt tccctctgc |
| ttcacaattt | gcatctcctg tatgccgtg cggtttcc agatgtctg cgccttcaag |
| atggccagcc | gcttcccacg cgccctacagc tactgggtcc gctaccaggg gccctacgtc |
| tctatggcat | ttatcacggt actaaaaatg gtcattgtgg taattggcat gctggccacg |
| ggcctcagtc | ccaccacccg tactgacccc gatgacccca agatcacaat tgtccttgt |

| MON-0345.ST25.txt | | |
|-------------------|--------------|---|
| aaccccaact | accgcaacag | cctgctgttc aacaccagcc tggacctgct gctctcagtg 2220 |
| gtgggttca | gcttcgccta | catggcaaa gagctgccca ccaactacaa cgaggccaag 2280 |
| ttcatcaccc | tcagcatgac | cttctatttc acctcatccg tctccctctg caccttcatg 2340 |
| tctgcctaca | gcggggtgct | ggtcaccatc gtggacctct tggtaactgt gctaacctc 2400 |
| ctggccatca | gcctgggcta | cttcggcccc aagtgtaca tgatcctctt ctacccggag 2460 |
| cgcaacacgc | ccgcctactt | caacagcatg atccaggggct acaccatgag gagggactag 2520 |
| <210> | 6 | |
| <211> | 2529 | |
| <212> | DNA | |
| <213> | Mus musculus | |
| <400> | 6 | |
| atgctttct | gggcagctca | cctgctgctc agcctgcagc tggccgttgc ttactgctgg 60 |
| gctttcagct | gccaaaggac | agaatcctct ccaggttca gcctccctgg ggacttcctc 120 |
| ctggcaggcc | tgttctccct | ccatgctgac tgtctgcagg tgagacacag acctctggtg 180 |
| acaagttgtg | acaggtctga | cagcttcaac ggccatggct atcacctctt ccaagccatg 240 |
| cggttcaccg | ttgaggagat | aaacaactcc acagctctgc ttcccaacat caccctgggg 300 |
| tatgaactgt | atgacgtgtg | ctcagagtct tccaatgtct atgcccaccc gagggtgctc 360 |
| gcccagcaag | ggacaggcca | cctagagatg cagagagatc ttgcacca accctccaag 420 |
| gtggtggcac | tcattggcc | tgataacact gaccacgctg tcaccactgc tgccctgctg 480 |
| agccctttc | tgatgcccct | ggtcagctat gaggcgagca gcgtgatcct cagtggaaag 540 |
| cgcaagttcc | cgtccttctt | gcgcaccatc cccagcgata agtaccaggt ggaagtcata 600 |
| gtgcggctgc | tgcagagctt | cggctgggtc tggatctcgc tcgttggcag ctatggtagc 660 |
| tacgggcagc | tggcgtaca | ggcgtggag gagctggcca ctccacgggg catctgcgtc 720 |
| gccttcaagg | acgtggtgcc | tctctccgccc caggcggtg acccaaggat gcagcgcattg 780 |
| atgctgcgtc | tggctcgagc | caggaccacc gtggctgtgg tcttctctaa ccggcacctg 840 |
| gctggagtgt | tcttcagggtc | tgtggtgctg gccaacctga ctggcaaagt gtggatcgcc 900 |
| tccgaagact | ggcccatctc | cacgtacatc accaatgtgc ccggatcca gggcattggg 960 |
| acggtgctgg | gggtggccat | ccagcagaga caagtccctg gcctgaagga gtttgaagag 1020 |
| tcctatgtcc | aggcagtgtat | gggtgctccc agaacttgcc cagaggggtc ctggtgccgc 1080 |
| actaaccagc | tgtcagggaa | gtgtcacgct ttcacgacat ggaacatgcc cgagcttgg 1140 |
| gccttctcca | tgagcgctgc | ctacaatgt tatgaggctg tgtatgtgt ggcccacggc 1200 |
| ctccaccagc | tcctggatg | tacctctggg acctgtgcca gaggcccagt ctacccctgg 1260 |
| cagttcttc | agcagatcta | caaggtgaat ttccctctac ataagaagac tgttagcattc 1320 |
| gatgacaagg | gggaccctct | aggttattat gacatcatcg cctggactg gaatggacct 1380 |
| aatggacct | ttgaggtcat | tggttctgcc tcactgtctc cagttcatct agacataaaat 1440 |
| aagacaaaaaa | tccagtggca | cggagaagaac aatcaggtgc ctgtgtcagt gtgtaccagg 1500 |

MON-0345.ST25.txt

| | |
|---|------|
| gactgtctcg aaggcacca cagttggtc atgggttccc accactgctg ctgcgagtgc | 1560 |
| atgcctgtg aagctggac atttctcaac acgagtgagc ttcacacctg ccagccttgt | 1620 |
| ggaacagaag aatgggcccc tgaggggagc tcagcctgct tctcacgcac cgtggagttc | 1680 |
| ttgggtggc atgaaccat ctcttggtg ctattagcag ctaacacgct attgctgctg | 1740 |
| ctgctgattg ggactgctgg cctgttgcc tggcgtctc acacgcgtt tgtgaggtca | 1800 |
| gctggggta ggctgtgctt cctcatgctg gtttcctgg tagctggag ttgcagcctc | 1860 |
| tacagcttct tcgggaagcc cacggtgccc gcgtgcttgc tgcgtcagcc cctctttct | 1920 |
| ctcgggttg ccattttcct ctccgtctg acaatccgct cttccaact ggtcatcatc | 1980 |
| ttcaagttt ctaccaaggt acccacattc taccacactt gggccaaaaa ccatggtgcc | 2040 |
| ggaatattcg tcattgtcag ctccacggc catttttcc tctgtctcac gtggcttgca | 2100 |
| atgtggaccc cacggccac cagggagtac cagcgcttcc cccatctggt gattcttgag | 2160 |
| tgcacagagg tcaactctgt gggcttcctg gtggcttgc cacacaacat ctcctctcc | 2220 |
| atcagcacct ttgtctgcag ctacctgggt aaggaactgc cggagaacta taacgaagcc | 2280 |
| aaatgtgtca ctttcagcct gtcctccac ttctgtatcc ttcatccatg tccagcattt | 2340 |
| accagggcag ctacctaccc gcggtaatg tgctggcagg gctggccact ctgagtggcg | 2400 |
| gttcagcgg ctatccctc cttaaatgct acgtgattct ctgccgtcca gaactcaaca | 2460 |
| acacagaaca ctttcaggcc tccatccagg actacacgag gcgctgcggc actacctga | 2520 |
| | 2529 |

<210> 7
<211> 2520
<212> DNA
<213> Rattus rattus

| | |
|---|-----|
| <400> 7 atgctttct gggctgctca cctgctgctc agcctgcagt tggtctactg ctgggcttcc | 60 |
| agctgccaaa ggacagagtc ctctccaggc ttccagccttc ctggggactt cttccatgg | 120 |
| ggtctttct ccctccatgg tgactgtctg caggtgagac acagacctct ggtgacaagt | 180 |
| tgtgacaggc ccgacagctt caacggccat ggctaccacc tcttccaagc catgcgggtc | 240 |
| actgttgagg agataaaacaa ctccctggcc ctgcttccca acatcaccct gggtatgag | 300 |
| ctgtacgacg tggctcaga atctgccaat gtgtatgcca ccctgagggt gttgcctg | 360 |
| caagggcccc gccacataga gatacagaaa gacttcgca accactcctc caaggtggtg | 420 |
| gccttcatcg ggcctgacaa cactgaccac gctgtcacta ccgctgcctt gctgggtcct | 480 |
| ttccctgatgc ccctggtcag ctatgaggca agcagcgtgg tactcagtgc caagcgcaag | 540 |
| ttccctgttt tccttcgtac cgtccccagt gaccggcacc aggtggaggt catggtgtag | 600 |
| ctgctgcaga gttttgggtg ggtgtggatc tcgctcattg gcagctacgg tgattacggg | 660 |
| cagctgggtg tgcaggcgct ggaggagctg gccgtgcccc gggcatctg cgtcgccttc | 720 |

MON-0345.ST25.txt

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|------|
| aaggacatcg | tgcccttctc | tgcccgggtg | ggtgaccgcga | ggatgcagag | catgatgcag | 780 |
| catctggctc | aggccaggac | caccgtggtt | gtggcttct | ctaaccggca | cctggctaga | 840 |
| gtgttcttca | ggtccgtgg | gctggccaac | ctgactggca | aagtgtgggt | cgcctcagaa | 900 |
| gactgggcc | tctccacgta | catcaccagc | gtgactggga | tccaaggcat | tggacggtg | 960 |
| ctcggtgtgg | ccgtccagca | gagacaagtc | cctgggctga | aggagttga | ggagtcttat | 1020 |
| gtcagggctg | taacagctgc | tcccagcgct | tgcccggagg | ggtcctgggt | cagcactaac | 1080 |
| cagctgtgcc | gggagtgcca | cacgttcacg | actcgtaaca | tgcccacgct | tggagccttc | 1140 |
| tccatgagtg | ccgcctacag | agtgtatgag | gctgtgtacg | ctgtggccca | cggcctccac | 1200 |
| cagctcctgg | gatgtacttc | ttagatctgt | tccagaggcc | cagtctaccc | ctggcagctt | 1260 |
| cttcagcaga | tctacaaggt | gaatttctt | ctacatgaga | atactgtggc | atttgatgac | 1320 |
| aacggggaca | ctctaggtta | ctacgacatc | atcgccctggg | actggaatgg | acctgaatgg | 1380 |
| acctttgaga | tcattggctc | tgcctcactg | tctccagttc | atctggacat | aaataagaca | 1440 |
| aaaatccagt | ggcacggaa | gaacaatcag | gtgcctgtgt | cagtgtgtac | cacggactgt | 1500 |
| ctggcagggc | accacaggg | ggttgtgggt | tcccaccact | gctgcttga | gtgtgtgccc | 1560 |
| tgcgaagctg | ggaccttct | caacatgagt | gagttcaca | tctgccagcc | ttgtggaaca | 1620 |
| gaagaatggg | cacccaagga | gagcactact | tgcttccac | gcacggtgga | gttcttgct | 1680 |
| tggcatgaac | ccatctttt | ggtgctaata | gcagctaaca | cgctattgct | gctgctgctg | 1740 |
| gttgggactg | ctggcctgtt | tgcctggcat | tttcacacac | ctgttagtgag | gtcagctggg | 1800 |
| ggtaggctgt | gcttcctcat | gctgggttcc | ctggtgcccg | gaagttgcag | cttctatagc | 1860 |
| ttcttcgggg | agcccacggt | gcccgctgc | ttgctgcgtc | agccccttt | ttctctcggg | 1920 |
| tttgccatct | tcctctcctg | cctgacaatc | cgctccttcc | aactggtcat | catcttcaag | 1980 |
| ttttctacca | aggtgccac | atttctaccgt | acctgggccc | aaaaccatgg | tgcaggtcta | 2040 |
| ttcgtcattg | ttagtccac | ggtccatttg | ctcatctgtc | tcacatggct | tgtaatgtgg | 2100 |
| acccccacgac | ccaccaggg | ataccagcgc | ttccccatc | tggtgattct | cgagtgcaca | 2160 |
| gaggtcaact | ctgtaggctt | cctgttggt | ttcacccaca | acattctcct | ctccatcagt | 2220 |
| accttcgtct | gcagctacct | gggtaaggaa | ctgcccagaga | actataatga | agccaaatgt | 2280 |
| gtcaccttca | gcctgctcct | caacttcgta | tcctggatcg | ccttcttcac | catggccagc | 2340 |
| atttaccagg | gcagctacct | gcctgcggc | aatgtgtgg | cagggctgac | cacactgagc | 2400 |
| ggcggcttca | gcggttactt | cctcccaag | tgctatgtga | ttctctgccc | tccagaactc | 2460 |
| aacaatacag | aacactttca | ggcctccatc | caggactaca | cgaggcgctg | cggcactacc | 2520 |

<210> 8
<211> 2526
<212> DNA
<213> Homo sapiens

<400> 8
atgctgctct gcacggctcg cctggtcggc ctgcagcttc tcatttcctg ctgctggcc 60
Page 12

MON-0345.ST25.txt

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| tttgccctgcc | atagcacgga | gtcttctcct | gacttcaccc | tccccggaga | ttacccctg | 120 |
| gcaggcctgt | tccctctcca | ttctggctgt | ctgcaggtga | ggcacagacc | cgaggtgacc | 180 |
| ctgtgtgaca | ggtctttag | cttcaatgag | catggctacc | acctcttcca | ggctatgcgg | 240 |
| cttggggttg | aggagataaa | caactccacg | gccctgctgc | ccaacatcac | cctggggta | 300 |
| cagctgtatg | atgtgtttc | tgactctgcc | aatgtgtatg | ccacgctgag | agtgcctcc | 360 |
| ctgccaggc | aacaccacat | agagctcaa | ggagacattc | tccactattc | ccctacggtg | 420 |
| ctggcagtga | ttgggcctga | cagcaccaac | cgtgctgcc | ccacagccgc | cctgctgagc | 480 |
| ccttcctgg | tgcccatgat | tagctatgcg | gccagcagcg | agacgctcag | cgtgaagcgg | 540 |
| cagtatccct | cttcctgcg | caccatcccc | aatgacaagt | accaggtgga | gaccatggtg | 600 |
| ctgctgctgc | agaagttcg | gtggacctgg | atctctcgg | ttggcagcag | tgacgactat | 660 |
| gggcagctag | gggtgcaggc | actggagaac | caggccactg | gtcagggat | ctgcattgct | 720 |
| ttcaaggaca | tcatgccctt | ctctgcccag | gtgggcgatg | agaggatgca | gtgcctcatg | 780 |
| cgccacctgg | cccaggccgg | ggccaccgtc | gtggttgttt | tttccagccg | gcagttggcc | 840 |
| agggtgtttt | tcgagtcctg | ggtgctgacc | aacctgactg | gcaagggtgt | ggtcgcctca | 900 |
| gaagcctggg | ccctctccag | gcacatca | ggggtgccc | ggatccagcg | cattggatg | 960 |
| gtgctggcg | tggccatcca | gaagagggct | gtccctggcc | tgaaggcg | tgaagaagcc | 1020 |
| tatgcccggg | cagacaagaa | ggcccctagg | cttgcccaca | agggctcctg | gtgcagcagc | 1080 |
| aatcagctct | gcagagaatg | ccaagtttc | atggcacaca | cgatgccaa | gctcaaagcc | 1140 |
| ttctccatga | gttctgccta | caacgcatac | cgggctgtgt | atgcggtggc | ccatggcctc | 1200 |
| caccagctcc | tgggctgtgc | ctctggagct | tgttccaggg | gccgagtcta | cccctggcag | 1260 |
| cttttggagc | agatccacaa | ggtgcat | tttctacaca | aggacactgt | ggcgtttaat | 1320 |
| gacaacagag | atcccctcag | tagtataac | ataattgcct | gggactggaa | tggacccaag | 1380 |
| tggaccttca | cggcctcgg | ttcctccaca | tggctccag | ttcagctaaa | cataaatgag | 1440 |
| accaaaatcc | agtggcacgg | aaaggacaac | caggtgccta | agtctgtgt | ttccagcga | 1500 |
| tgtcttgaag | ggcaccagcg | agtggttacg | ggttccatc | actgctgctt | tgagtgtgt | 1560 |
| ccctgtgggg | ctgggacctt | cctcaacaag | agtgacctct | acagatgcca | gccttgtgg | 1620 |
| aaagaagagt | gggcacctga | gggaagccag | acctgcttcc | cgcgcactgt | ggtgttttg | 1680 |
| gctttgcgtg | agcacaccc | ttgggtgctg | ctggcagct | acacgctgt | gctgctgctg | 1740 |
| ctgcttggga | ctgctggcct | gttgcctgg | cacctagaca | cccctgtgg | gaggtcagca | 1800 |
| gggggccc | tgtgtttct | tatgctggc | tccctggcag | caggtagtgg | cagccttat | 1860 |
| ggcttcttgc | gggaacccac | aaggcctgcg | tgcttgcac | gccaggccct | ctttgcctt | 1920 |
| ggtttccacca | tcttcctgtc | ctgcctgaca | gttcgcct | tccactaat | catcatcttc | 1980 |
| aagtttcca | ccaaggtacc | tacattctac | cacgcctgg | tccaaaacca | cggtgctggc | 2040 |
| ctgtttgtga | tgatcagctc | agcggccca | ctgcttatct | gtctaacttg | gctgggtgg | 2100 |

MON-0345.ST25.txt

| | | | | | | |
|------------|------------|------------|------------|-----------|------------|------|
| tggaccac | tgcctgctag | ggaataccag | cgttcccc | atctggat | gcttgagtgc | 2160 |
| acagagacca | actccctgg | cttcatactg | gccttcct | acaatggc | cctctccatc | 2220 |
| agtgcctt | cttcgcagta | cctggtaag | gacttgc | agaactaca | cgaggccaa | 2280 |
| tgtgtcac | tcagcctg | cttcaacttc | gtgtcctg | tcgcctt | caccacggcc | 2340 |
| agcgtctac | acggcaagta | cctgcctgc | gccaa | tggctgg | gagcagcctg | 2400 |
| agcagcgg | tcggtg | tttctgc | aagtgc | tgatcct | ccgcccagac | 2460 |
| ctcaacag | cagagcactt | ccaggcctcc | attcaggact | acacgaggc | ctgcggctcc | 2520 |
| acctga | | | | | | 2526 |

<210> 9
<211> 2577
<212> DNA
<213> Mus musculus

| | | | | | | |
|------------|------------|------------|----------|------------|-----------|------|
| <400> 9 | | | | | | |
| atgccagctt | tggctatcat | gggtctc | ctggctg | tcctggag | tggtatgg | 60 |
| gcctctt | gtctgtcaca | gcaattcaag | gcacaagg | actacata | ggcggg | 120 |
| tttccc | gctcaacc | ggaggcc | actcaacc | gaacacaacc | caacagc | 180 |
| ccgtgcaaca | ggttctc | cttgg | ttcctgg | tggctatg | atggctgt | 240 |
| gaggagat | acaatgg | tgcc | cctgg | ggctgg | tgacctat | 300 |
| gacacat | ccgagcc | gtt | tcatt | tcatgtt | ggccaagg | 360 |
| ggcagtcaaa | gcattg | ctact | gcaac | tacaca | atccaaccc | 420 |
| gtcatcg | cccact | agag | ctcatt | gcaagt | ttt | 480 |
| ctcatg | aggc | tagt | tgcc | atggat | cg | 540 |
| ccatc | tccg | cacag | gcc | cggt | tg | 600 |
| ttgc | caga | act | gtt | aggc | tg | 660 |
| gaagg | tctg | ttt | tc | act | gtat | 720 |
| ggc | cata | ttt | ca | tc | gtat | 780 |
| cgcc | acc | ttt | ca | ttt | gtat | 840 |
| tact | ttt | ttt | ttt | ttt | gtat | 900 |
| gagt | ttt | ttt | ttt | ttt | gtat | 960 |
| gtg | ttt | ttt | ttt | ttt | gtat | 1020 |
| cac | ttt | ttt | ttt | ttt | gtat | 1080 |
| gag | ttt | ttt | ttt | ttt | gtat | 1140 |
| tat | ttt | ttt | ttt | ttt | gtat | 1200 |
| tat | ttt | ttt | ttt | ttt | gtat | 1260 |
| catt | ttt | ttt | ttt | ttt | gtat | 1320 |

MON-0345.ST25.txt

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|------|
| agtttccatg | ctcgagactt | gacactacag | tttgatgctg | aaggaaatgt | agacatggaa | 1380 |
| tatgacctga | agatgtgggt | gtggcagagc | cctacacctg | tattacatac | tgtggcacc | 1440 |
| ttcaacggca | cccttcagct | gcagcagtct | aaaatgtact | ggccaggcaa | ccaggtgcc | 1500 |
| gtctcccagt | gttcccggca | gtgcaaagat | ggccaggttc | gccgagtaaa | gggcttcat | 1560 |
| tcctgctgct | atgactgcgt | ggactgcaag | gcgggcagct | accggaagca | tccagatgac | 1620 |
| ttcacctgta | ctccatgtaa | ccaggaccag | tggtccccag | agaaaagcac | agcctgctta | 1680 |
| cctcgcaggc | ccaagtttct | ggcttggggg | gagccagttg | tgctgtcact | cctcctgctg | 1740 |
| ctttgcctgg | tgctgggtct | agcaactggct | gctctgggc | tctctgtcca | ccactggac | 1800 |
| agccctcttgc | tccaggcctc | aggtggctca | cagttctgct | ttggcctgat | ctgccttaggc | 1860 |
| ctcttctgccc | tcagtgtcct | tctgttccca | gggcggccaa | gctctgcccag | ctgccttgca | 1920 |
| caacaaccaa | tggctcacct | ccctctcaca | ggctgcctga | gcacactctt | cctgcaagca | 1980 |
| gctgagacact | ttgtggagtc | ttagactgcca | ctgagctggg | caaactggct | atgcagctac | 2040 |
| cttcggggac | tctgggcctg | gctagtggt | ctgttggcca | cttttgtgga | ggcagcacta | 2100 |
| tgtgcctgg | atttgcgtgc | tttcccacca | gaggtggtga | cagactggc | agtgcgtccc | 2160 |
| acagaggtac | tggagcactg | ccacgtgcgt | tcctgggtca | gcctgggctt | ggtgcacatc | 2220 |
| accaatgca | tgttagctt | cctctgcttt | ctgggcactt | tcctggtaca | gagccagcct | 2280 |
| ggccgctaca | accgtgccc | tggtctcacc | ttcgccatgc | tagtttattt | catcacctgg | 2340 |
| gtctctttg | tgccctcct | ggccaatgt | caggtggcct | accagccagc | tgtgcagatg | 2400 |
| ggtgctatcc | tagtctgtgc | cctgggcattc | ctggtcacct | tccacctgccc | caagtgcata | 2460 |
| gtgcttcttt | ggctgccaaa | gctcaacacc | caggagttct | tcctggaaag | aatgccaag | 2520 |
| aaagcagcag | atgagaacag | tggcggtggt | gaggcagctc | agggacacaa | tgaatga | 2577 |

<210> 10
<211> 2577
<212> DNA
<213> Rattus rattus

<400> 10
atgcccgggtt tggcttatctt gggcctcagt ctggctgctt tcctggagct tggatgggg 60
tcctctttgt gtctgtcaca gcaattcaag gcacaagggg actatatatt gggtggacta 120
tttcccctgg gcacaactga ggaggccact ctcaccaga gaacacagcc caacggcatc 180
ctatgtacca gttctcgcc cttgggttg ttccctggcca tggctatgaa gatggctgta 240
gaggagatca acaatggatc tgccttgctc cttggctgc gactggcta tgacctgttt 300
gacacatgct cagagccagt ggtcaccatg aagcccagcc tcatgttcat gccaaaggtg 360
ggaagtcaaa gcattgctgc ctactgcaac tacacacagt accaaccggc tgtgcggct 420
gtcattggtc cccactcatc agagcttgcc ctcattacag gcaagttctt cagttcttc 480
ctcatgccac aggtcagcta tagtgccagc atggatcgac taagtgaccg ggaaacattt 540
ccatccttct tccgcacagt gcccagtgac cgggtgcagc tgcaggccgt tgtgacactg 600

MON-0345.ST25.txt

ttgcagaatt tcagctggaa ctgggtggct gccttaggta gtatgtatga ctaggccgg 660
gaaggctctga gcatctttc tggctggcc aactcacag gtatctgcat tgcacacgag 720
ggcctggtgc cacaacatga cactagtggc caacaattgg gcaagggtggt ggatgtgcta 780
cgccaagtga accaaagcaa agtacaggtg gtggtgctgt ttgcattgc ccgtgctgtc 840
tactccctt ttagctacag catccttcat gacctctcac ccaaggatg ggtggccagt 900
gagtcctggc tgacctctga cctggtcatg acacttccc atattgccc tgtgggcact 960
gttcttggt ttctgcagcg cggtgcccta ctgcctgaat ttcccatta tgtggagact 1020
cgccctggcc tagctgctga cccaacattc tgtgcctccc tgaaagctga gttggatctg 1080
gaggagcgcg ttaggggccc acgctgttca caatgtgact acatcatgct acagaacctg 1140
tcatctggc ttagtcagaa cctatcagct gggcagttgc accaccaaatttgcacc 1200
tatgcagctg tgtacagtgt ggctcaggcc cttcacaaca ccctgcagtg caatgtctca 1260
cattgccccca catcagagcc tggcaaccc tggcagctcc tggagaacat gtacaatatg 1320
agtttccgtg ctcgagactt gacactgcag tttgatgcca aaggagttgt agacatggaa 1380
tatgacctga agatgtgggt gtggcagagc cctacacactg tactacatac tgttaggcacc 1440
ttcaacggca cccttcagct gcagcactcg aaaatgtatt ggccaggcaa ccaggtgcca 1500
gtctcccaact gctcccccggca gtgcaaagat ggccagggtgc gcagagtaaa gggcttcatt 1560
tcctgcgtct atgactgtgt ggactgcaag gcagggagct accggaagca tccagatgac 1620
ttcacctgta ctccatgtgg caaggatcag tggccccag aaaaagcac aacctgctta 1680
cctcgcaggc ccaagttct ggcttgggg gagccagctg tgctgtact tctcctgctg 1740
ctttgcctgg tgctgggcct gacactggct gccctgggc tcttgcctca ctactggac 1800
agcccttttgc ttcaggcctc aggtgggtca ctgttgcgt ttggcctgat ctgccttaggc 1860
ctcttcgtcc tcagtcgtcct tctgttccca ggacgaccac gctctgcccag ctgccttgcc 1920
caacaaccaa tggctcacct ccctctcaca ggctgcctga gcacactt cctgcaagca 1980
gccgagatct ttgtggagtc tgagctgcca ctgagttggg ccaaactggct ctgcagctac 2040
cttcggggcc cctgggcttg gctgggtga ctgctggca ctcttgcgttggaa ggctgcacta 2100
tgtgcctggt acttgcgttgc ttccctcca gaggtgggtga cagattggca ggtgctgccc 2160
acggaggtac tggAACACTG CCGCATGCGT TCCGGGTCA GCCTGGGCTT GGTGCACATC 2220
accaatgcag tggtagctt cctctgctt ctggcactt tcctggtaca gagccagcct 2280
ggtcgcata accgtgcccgg tggcctcacc ttcgcccattgc tagcttattt catcatgtgg 2340
gtctcttttgc tgccctccct ggctaatgtg caggtggcctt accagccagc tggcagatg 2400
ggtgctatct tattctgtgc cctgggcatc ctggccaccc tccacctgccc caaatgttat 2460
gtacttcgtt ggctgcaga gctcaacacc caggagttct tcctgggaag gagccccaaag 2520
gaagcatcag atggaaatag tggtagtagt gaggcaactc ggggacacag tgaatga 2577

MON-0345.ST25.txt

<210> 11
<211> 2559
<212> DNA
<213> Homo sapiens

| | |
|---|------|
| <400> 11 | |
| atgctgggcc ctgctgtcct gggcctcagc ctctgggctc tcctgcaccc tggacgggg | 60 |
| gccccattgt gcctgtcaca gcaacttagg atgaaggggg actacgtgct gggggggctg | 120 |
| ttccccctgg gcgaggccga ggaggctggc ctccgcagcc ggacacggcc cagcagccct | 180 |
| gtgtgcacca gtttctcctc aaacggcctg ctctggcac tggccatgaa aatggccgtg | 240 |
| gaggagatca acaacaagtc ggatctgctg cccggctgc gcctggcta cgacctttt | 300 |
| gatacgtgct cggagcctgt ggtggccatg aagcccagcc tcatgttcct gccaaaggca | 360 |
| ggcagccgca acatcgccgc ctactgcaac tacacgcagt accagccccg tgtgtggct | 420 |
| gtcatcgggc cccactcgtc agagctcgcc atggtcaccg gcaagttctt cagtttttc | 480 |
| ctcatgcccc aggtcagcta cggtgcttagc atggagctgc tgagcgcccc ggagaccttc | 540 |
| ccctccttct tccgcaccgt gcccagcgcac cgtgtgcagc tgacggccgc cgccggagctg | 600 |
| ctgcaggagt tcggctggaa ctgggtggcc gcccctggca gcgacgacga gtacggccgg | 660 |
| cagggcctga gcatttctc ggccttggcc gcggcacgcg gcatctgcat cgccacgcag | 720 |
| ggcctgggtc cgctgccccg tgccgatgac tcgcggctgg ggaagggtgca ggacgtcctg | 780 |
| caccaggtga accagagcag cgtcaggtg gtgctgtgt tcgcctccgt gcacgcccgc | 840 |
| cacgcctct tcaactacag catcagcagc aggctctcgc ccaaggtgtg ggtggccagc | 900 |
| gaggcctggc tgacctctga cctggtcatg gggctgccc gcatggccca gatgggcacg | 960 |
| gtgcttggct tcctccagag gggtgcccg ctgcacgagt tccccagta cgtaaagacg | 1020 |
| cacctggccc tggccaccga cccggccttc tgctctgccc tgggcagag ggagcagggt | 1080 |
| ctggaggagg acgtggtggg ccagcgctgc ccgcagtgactgcatcac gctgcagaac | 1140 |
| gtgagcgcag ggctaaatca ccaccagacg ttctctgtct acgcagctgt gtatagcgtg | 1200 |
| gcccaggccc tgcacaacac tcttcagtgc aacgcctcag gctgccccgc gcaggacccc | 1260 |
| gtgaagccct ggcagctcct ggagaacatg tacaacctga cttccacgt gggcgggctg | 1320 |
| ccgctgcggc tcgacagcag cggaaacgtg gacatggagt acgacctgaa gctgtgggtg | 1380 |
| tggcaggcgt cagtggccag gctccacgac gtggcaggt tcaacggcag ctcaggaca | 1440 |
| gagcgcctga agatccgtc gcacacgtct gacaaccaga agccctgtc ccggcgtctg | 1500 |
| ccgcagtgcc aggagggcca ggtgcgcccgg gtcaagggtt tccactcctg ctgcacac | 1560 |
| tgtgtggact gcgaggcggg cagctaccgg caaaacccag acgacatcgc ctgcaccc | 1620 |
| tgtggccagg atgagtggtc cccggagcga agcacacgt gcttccgccc caggtctcg | 1680 |
| ttcctggcat gggcgagcc ggctgtgctg ctgctgtcc tgctgtgag cctggcgctg | 1740 |
| ggccttgtgc tggctgctt gggctgttc gttcaccatc gggacagccc actggttcag | 1800 |
| gcctcggggg ggcccctggc ctgcttggc ctggtgtgcc tggcctgggt ctgcctcagc | 1860 |

MON-0345.ST25.txt

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|------|
| gtcctcctgt | tccctggcca | gcccagccct | gcccgatgcc | tggcccagca | gcccttgc | 1920 |
| caccccccgc | tcacgggctg | cctgagcaca | ctcttcctgc | aggcggccga | gatttcgtg | 1980 |
| gagtcagaac | tgcctctgag | ctgggcagac | cggctgagtg | gctgcctgcg | ggggccctgg | 2040 |
| gcctggctgg | tggtgctgct | ggccatgctg | gtggaggtcg | cactgtgcac | ctgg tacctg | 2100 |
| gtggccttcc | cgccggaggt | ggtgacggac | tggcacatgc | tgcccacgga | ggcgctgg | 2160 |
| cactgccc | cacgctcctg | ggtcagcttc | ggcctagcgc | acgcccaccaa | tgccacgctg | 2220 |
| gcctttctct | gcttcctggg | cacttcctg | gtgcggagcc | agccgggccc | ctacaaccgt | 2280 |
| ctcctggcca | atgtgcaggt | ggtcctcagg | cccgcgtgc | agatgggcgc | cctcctgctc | 2340 |
| tgtgcctgg | gcatcctggc | tgcctccac | ctgcccaggt | gttacctgct | catgcggcag | 2460 |
| ccagggctca | acacccccga | gttcttcctg | ggagggggcc | ctggggatgc | ccaaggccag | 2520 |
| aatgacggga | acacaggaaa | tcaggggaaa | catgagtg | | | 2559 |

<210> 12

<211> 852

<212> PRT

<213> Homo sapiens

<400> 12

Met Leu Gly Pro Ala Val Leu Gly Leu Ser Leu Trp Ala Leu Leu His
1 5 10 15

Pro Gly Thr Gly Ala Pro Leu Cys Leu Ser Gln Gln Leu Arg Met Lys
20 25 30

Gly Asp Tyr Val Leu Gly Gly Leu Phe Pro Leu Gly Glu Ala Glu Glu
35 40 45

Ala Gly Leu Arg Ser Arg Thr Arg Pro Ser Ser Pro Val Cys Thr Arg
50 55 60

Phe Ser Ser Asn Gly Leu Leu Trp Ala Leu Ala Met Lys Met Ala Val
65 70 75 80

Glu Glu Ile Asn Asn Lys Ser Asp Leu Leu Pro Gly Leu Arg Leu Gly
85 90 95

Tyr Asp Leu Phe Asp Thr Cys Ser Glu Pro Val Val Ala Met Lys Pro
100 105 110

Ser Leu Met Phe Leu Ala Lys Ala Gly Ser Arg Asp Ile Ala Ala Tyr
115 120 125

Cys Asn Tyr Thr Gln Tyr Gln Pro Arg Val Leu Ala Val Ile Gly Pro
130 135 140

MON-0345.ST25.txt

His Ser Ser Glu Leu Ala Met Val Thr Gly Lys Phe Phe Ser Phe Phe
 145 150 155 160

Leu Met Pro Gln Val Ser Tyr Gly Ala Ser Met Glu Leu Leu Ser Ala
 165 170 175

Arg Glu Thr Phe Pro Ser Phe Phe Arg Thr Val Pro Ser Asp Arg Val
 180 185 190

Gln Leu Thr Ala Ala Ala Glu Leu Leu Gln Glu Phe Gly Trp Asn Trp
 195 200 205

Val Ala Ala Leu Gly Ser Asp Asp Glu Tyr Gly Arg Gln Gly Leu Ser
 210 215 220

Ile Phe Ser Ala Leu Ala Ala Arg Gly Ile Cys Ile Ala His Glu
 225 230 235 240

Gly Leu Val Pro Leu Pro Arg Ala Asp Asp Ser Arg Leu Gly Lys Val
 245 250 255

Gln Asp Val Leu His Gln Val Asn Gln Ser Ser Val Gln Val Val Leu
 260 265 270

Leu Phe Ala Ser Val His Ala Ala His Ala Leu Phe Asn Tyr Ser Ile
 275 280 285

Ser Ser Arg Leu Ser Pro Lys Val Trp Val Ala Ser Glu Ala Trp Leu
 290 295 300

Thr Ser Asp Leu Val Met Gly Leu Pro Gly Met Ala Gln Met Gly Thr
 305 310 315 320

Val Leu Gly Phe Leu Gln Arg Gly Ala Gln Leu His Glu Phe Pro Gln
 325 330 335

Tyr Val Lys Thr His Leu Ala Leu Ala Thr Asp Pro Ala Phe Cys Ser
 340 345 350

Ala Leu Gly Glu Arg Glu Gln Gly Leu Glu Glu Asp Val Val Gly Gln
 355 360 365

Arg Cys Pro Gln Cys Asp Cys Ile Thr Leu Gln Asn Val Ser Ala Gly
 370 375 380

Leu Asn His His Gln Thr Phe Ser Val Tyr Ala Ala Val Tyr Ser Val
 385 390 395 400

Ala Gln Ala Leu His Asn Thr Leu Gln Cys Asn Ala Ser Gly Cys Pro
 405 410 415

MON-0345.ST25.txt

Ala Gln Asp Pro Val Lys Pro Trp Gln Leu Leu Glu Asn Met Tyr Asn
 420 425 430

Leu Thr Phe His Val Gly Gly Leu Pro Leu Arg Phe Asp Ser Ser Gly
 435 440 445

Asn Val Asp Met Glu Tyr Asp Leu Lys Leu Trp Val Trp Gln Gly Ser
 450 455 460

Val Pro Arg Leu His Asp Val Gly Arg Phe Asn Gly Ser Leu Arg Thr
 465 470 475 480

Glu Arg Leu Lys Ile Arg Trp His Thr Ser Asp Asn Gln Lys Pro Val
 485 490 495

Ser Arg Cys Ser Arg Gln Cys Gln Glu Gly Gln Val Arg Arg Val Lys
 500 505 510

Gly Phe His Ser Cys Cys Tyr Asp Cys Val Asp Cys Glu Ala Gly Ser
 515 520 525

Tyr Arg Gln Asn Pro Asp Asp Ile Ala Cys Thr Phe Cys Gly Gln Asp
 530 535 540

Glu Trp Ser Pro Glu Arg Ser Thr Arg Cys Phe Arg Arg Arg Ser Arg
 545 550 555 560

Phe Leu Ala Trp Gly Glu Pro Ala Val Leu Leu Leu Leu Leu Leu
 565 570 575

Ser Leu Ala Leu Gly Leu Val Leu Ala Ala Leu Gly Leu Phe Val His
 580 585 590

His Arg Asp Ser Pro Leu Val Gln Ala Ser Gly Gly Pro Leu Ala Cys
 595 600 605

Phe Gly Leu Val Cys Leu Gly Leu Val Cys Leu Ser Val Leu Leu Phe
 610 615 620

Pro Gly Gln Pro Ser Pro Ala Arg Cys Leu Ala Gln Gln Pro Leu Ser
 625 630 635 640

His Leu Pro Leu Thr Gly Cys Leu Ser Thr Leu Phe Leu Gln Ala Ala
 645 650 655

Glu Ile Phe Val Glu Ser Glu Leu Pro Leu Ser Trp Ala Asp Arg Leu
 660 665 670

Ser Gly Cys Leu Arg Gly Pro Trp Ala Trp Leu Val Val Leu Leu Ala
 675 680 685

MON-0345.ST25.txt

Met Leu Val Glu Val Ala Leu Cys Thr Trp Tyr Leu Val Ala Phe Pro
 690 695 700 705 710 715 720

Pro Glu Val Val Thr Asp Trp His Met Leu Pro Thr Glu Ala Leu Val
 705 710 715 720

His Cys Arg Thr Arg Ser Trp Val Ser Phe Gly Leu Ala His Ala Thr
 725 730 735

Asn Ala Thr Leu Ala Phe Leu Cys Phe Leu Gly Thr Phe Leu Val Arg
 740 745 750

Ser Gln Pro Gly Arg Tyr Asn Arg Ala Arg Gly Leu Thr Phe Ala Met
 755 760 765

Leu Ala Tyr Phe Ile Thr Trp Val Ser Phe Val Pro Leu Leu Ala Asn
 770 775 780

Val Gln Val Val Leu Arg Pro Ala Val Gln Met Gly Ala Leu Leu Leu
 785 790 795 800

Cys Val Leu Gly Ile Leu Ala Ala Phe His Leu Pro Arg Cys Tyr Leu
 805 810 815

Leu Met Arg Gln Pro Gly Leu Asn Thr Pro Glu Phe Phe Leu Gly Gly
 820 825 830

Gly Pro Gly Asp Ala Gln Gly Gln Asn Asp Gly Asn Thr Gly Asn Gln
 835 840 845

Gly Lys His Glu
 850

<210> 13
 <211> 858
 <212> PRT
 <213> Mus musculus

<400> 13

Met Pro Ala Leu Ala Ile Met Gly Leu Ser Leu Ala Ala Phe Leu Glu
 1 5 10 15

Leu Gly Met Gly Ala Ser Leu Cys Leu Ser Gln Gln Phe Lys Ala Gln
 20 25 30

Gly Asp Tyr Ile Leu Gly Gly Leu Phe Pro Leu Gly Ser Thr Glu Glu
 35 40 45

Ala Thr Leu Asn Gln Arg Thr Gln Pro Asn Ser Ile Pro Cys Asn Arg
 50 55 60

Phe Ser Pro Leu Gly Leu Phe Leu Ala Met Ala Met Lys Met Ala Val
 Page 21

65

70

75

80

Glu Glu Ile Asn Asn Gly Ser Ala Leu Leu Pro Gly Leu Arg Leu Gly
 85 90 95

Tyr Asp Leu Phe Asp Thr Cys Ser Glu Pro Val Val Thr Met Lys Ser
 100 105 110

Ser Leu Met Phe Leu Ala Lys Val Gly Ser Gln Ser Ile Ala Ala Tyr
 115 120 125

Cys Asn Tyr Thr Gln Tyr Gln Pro Arg Val Leu Ala Val Ile Gly Pro
 130 135 140

His Ser Ser Glu Leu Ala Leu Ile Thr Gly Lys Phe Phe Ser Phe Phe
 145 150 155 160

Leu Met Pro Gln Val Ser Tyr Ser Ala Ser Met Asp Arg Leu Ser Asp
 165 170 175

Arg Glu Thr Phe Pro Ser Phe Phe Arg Thr Val Pro Ser Asp Arg Val
 180 185 190

Gln Leu Gln Ala Val Val Thr Leu Leu Gln Asn Phe Ser Trp Asn Trp
 195 200 205

Val Ala Ala Leu Gly Ser Asp Asp Asp Tyr Gly Arg Glu Gly Leu Ser
 210 215 220

Ile Phe Ser Ser Leu Ala Asn Ala Arg Gly Ile Cys Ile Ala His Glu
 225 230 235 240

Gly Leu Val Pro Gln His Asp Thr Ser Gly Gln Gln Leu Gly Lys Val
 245 250 255

Leu Asp Val Leu Arg Gln Val Asn Gln Ser Lys Val Gln Val Val Val
 260 265 270

Leu Phe Ala Ser Ala Arg Ala Val Tyr Ser Leu Phe Ser Tyr Ser Ile
 275 280 285

His His Gly Leu Ser Pro Lys Val Trp Val Ala Ser Glu Ser Trp Leu
 290 295 300

Thr Ser Asp Leu Val Met Thr Leu Pro Asn Ile Ala Arg Val Gly Thr
 305 310 315 320

Val Leu Gly Phe Leu Gln Arg Gly Ala Leu Leu Pro Glu Phe Ser His
 325 330 335

Tyr Val Glu Thr His Leu Ala Leu Ala Asp Pro Ala Phe Cys Ala
 Page 22

340

345

350

Ser Leu Asn Ala Glu Leu Asp Leu Glu Glu His Val Met Gly Gln Arg
 355 360 365

Cys Pro Arg Cys Asp Asp Ile Met Leu Gln Asn Leu Ser Ser Gly Leu
 370 375 380

Leu Gln Asn Leu Ser Ala Gly Gln Leu His His Gln Ile Phe Ala Thr
 385 390 395 400

Tyr Ala Ala Val Tyr Ser Val Ala Gln Ala Leu His Asn Thr Leu Gln
 405 410 415

Cys Asn Val Ser His Cys His Val Ser Glu His Val Leu Pro Trp Gln
 420 425 430

Leu Leu Glu Asn Met Tyr Asn Met Ser Phe His Ala Arg Asp Leu Thr
 435 440 445

Leu Gln Phe Asp Ala Glu Gly Asn Val Asp Met Glu Tyr Asp Leu Lys
 450 455 460

Met Trp Val Trp Gln Ser Pro Thr Pro Val Leu His Thr Val Gly Thr
 465 470 475 480

Phe Asn Gly Thr Leu Gln Leu Gln Gln Ser Lys Met Tyr Trp Pro Gly
 485 490 495

Asn Gln Val Pro Val Ser Gln Cys Ser Arg Gln Cys Lys Asp Gly Gln
 500 505 510

Val Arg Arg Val Lys Gly Phe His Ser Cys Cys Tyr Asp Cys Val Asp
 515 520 525

Cys Lys Ala Gly Ser Tyr Arg Lys His Pro Asp Asp Phe Thr Cys Thr
 530 535 540

Pro Cys Asn Gln Asp Gln Trp Ser Pro Glu Lys Ser Thr Ala Cys Leu
 545 550 555 560

Pro Arg Arg Pro Lys Phe Leu Ala Trp Gly Glu Pro Val Val Leu Ser
 565 570 575

Leu Leu Leu Leu Leu Cys Leu Val Leu Gly Leu Ala Leu Ala Ala Leu
 580 585 590

Gly Leu Ser Val His His Trp Asp Ser Pro Leu Val Gln Ala Ser Gly
 595 600 605

Gly Ser Gln Phe Cys Phe Gly Leu Ile Cys Leu Gly Leu Phe Cys Leu
 Page 23

MON-0345.ST25.txt

Ser Val Leu Leu Phe Pro Gly Arg Pro Ser Ser Ala Ser Cys Leu Ala
 625 630 635 640
 640
 Gln Gln Pro Met Ala His Leu Pro Leu Thr Gly Cys Leu Ser Thr Leu
 645 650 655
 655
 Phe Leu Gln Ala Ala Glu Thr Phe Val Glu Ser Glu Leu Pro Leu Ser
 660 665 670
 670
 Trp Ala Asn Trp Leu Cys Ser Tyr Leu Arg Gly Leu Trp Ala Trp Leu
 675 680 685
 685
 Val Val Leu Leu Ala Thr Phe Val Glu Ala Ala Leu Cys Ala Trp Tyr
 690 695 700
 700
 Leu Ile Ala Phe Pro Pro Glu Val Val Thr Asp Trp Ser Val Leu Pro
 705 710 715 720
 720
 Thr Glu Val Leu Glu His Cys His Val Arg Ser Trp Val Ser Leu Gly
 725 730 735
 735
 Leu Val His Ile Thr Asn Ala Met Leu Ala Phe Leu Cys Phe Leu Gly
 740 745 750
 750
 Thr Phe Leu Val Gln Ser Gln Pro Gly Arg Tyr Asn Arg Ala Arg Gly
 755 760 765
 765
 Leu Thr Phe Ala Met Leu Ala Tyr Phe Ile Thr Trp Val Ser Phe Val
 770 775 780
 780
 Pro Leu Leu Ala Asn Val Gln Val Ala Tyr Gln Pro Ala Val Gln Met
 785 790 795 800
 800
 Gly Ala Ile Leu Val Cys Ala Leu Gly Ile Leu Val Thr Phe His Leu
 805 810 815
 815
 Pro Lys Cys Tyr Val Leu Leu Trp Leu Pro Lys Leu Asn Thr Gln Glu
 820 825 830
 830
 Phe Phe Leu Gly Arg Asn Ala Lys Lys Ala Ala Asp Glu Asn Ser Gly
 835 840 845
 845
 Gly Gly Glu Ala Ala Gln Gly His Asn Glu
 850 855
 855

<210> 14
<211> 858
<212> PRT
<213> *Rattus rattus*

<400> 14

Met Pro Gly Leu Ala Ile Leu Gly Leu Ser Leu Ala Ala Phe Leu Glu
 1 5 10 15

Leu Gly Met Gly Ser Ser Leu Cys Leu Ser Gln Gln Phe Lys Ala Gln
 20 25 30

Gly Asp Tyr Ile Leu Gly Gly Leu Phe Pro Leu Gly Thr Thr Glu Glu
 35 40 45

Ala Thr Leu Asn Gln Arg Thr Gln Pro Asn Gly Ile Leu Cys Thr Arg
 50 55 60

Phe Ser Pro Leu Gly Leu Phe Leu Ala Met Ala Met Lys Met Ala Val
 65 70 75 80

Glu Glu Ile Asn Asn Gly Ser Ala Leu Leu Pro Gly Leu Arg Leu Gly
 85 90 95

Tyr Asp Leu Phe Asp Thr Cys Ser Glu Pro Val Val Thr Met Lys Pro
 100 105 110

Ser Leu Met Phe Met Ala Lys Val Gly Ser Gln Ser Ile Ala Ala Tyr
 115 120 125

Cys Asn Tyr Thr Gln Tyr Gln Pro Arg Val Leu Ala Val Ile Gly Pro
 130 135 140

His Ser Ser Glu Leu Ala Leu Ile Thr Gly Lys Phe Phe Ser Phe Phe
 145 150 155 160

Leu Met Pro Gln Val Ser Tyr Ser Ala Ser Met Asp Arg Leu Ser Asp
 165 170 175

Arg Glu Thr Phe Pro Ser Phe Phe Arg Thr Val Pro Ser Asp Arg Val
 180 185 190

Gln Leu Gln Ala Val Val Thr Leu Leu Gln Asn Phe Ser Trp Asn Trp
 195 200 205

Val Ala Ala Leu Gly Ser Asp Asp Asp Tyr Gly Arg Glu Gly Leu Ser
 210 215 220

Ile Phe Ser Gly Leu Ala Asn Ser Arg Gly Ile Cys Ile Ala His Glu
 225 230 235 240

Gly Leu Val Pro Gln His Asp Thr Ser Gly Gln Gln Leu Gly Lys Val
 245 250 255

Val Asp Val Leu Arg Gln Val Asn Gln Ser Lys Val Gln Val Val Val
 260 265 270

MON-0345.ST25.txt

Leu Phe Ala Ser Ala Arg Ala Val Tyr Ser Leu Phe Ser Tyr Ser Ile
275 280 285

Leu His Asp Leu Ser Pro Lys Val Trp Val Ala Ser Glu Ser Trp Leu
290 295 300

Thr Ser Asp Leu Val Met Thr Leu Pro Asn Ile Ala Arg Val Gly Thr
305 310 315 320

Val Leu Gly Phe Leu Gln Arg Gly Ala Leu Leu Pro Glu Phe Ser His
325 330 335

Tyr Val Glu Thr Arg Leu Ala Leu Ala Asp Pro Thr Phe Cys Ala
340 345 350

Ser Leu Lys Ala Glu Leu Asp Leu Glu Glu Arg Val Met Gly Pro Arg
355 360 365

Cys Ser Gln Cys Asp Tyr Ile Met Leu Gln Asn Leu Ser Ser Gly Leu
370 375 380

Met Gln Asn Leu Ser Ala Gly Gln Leu His His Gln Ile Phe Ala Thr
385 390 395 400

Tyr Ala Ala Val Tyr Ser Val Ala Gln Ala Leu His Asn Thr Leu Gln
405 410 415

Cys Asn Val Ser His Cys His Thr Ser Glu Pro Val Gln Pro Trp Gln
420 425 430

Leu Leu Glu Asn Met Tyr Asn Met Ser Phe Arg Ala Arg Asp Leu Thr
435 440 445

Leu Gln Phe Asp Ala Lys Gly Ser Val Asp Met Glu Tyr Asp Leu Lys
450 455 460

Met Trp Val Trp Gln Ser Pro Thr Pro Val Leu His Thr Val Gly Thr
465 470 475 480

Phe Asn Gly Thr Leu Gln Leu Gln His Ser Lys Met Tyr Trp Pro Gly
485 490 495

Asn Gln Val Pro Val Ser Gln Cys Ser Arg Gln Cys Lys Asp Gly Gln
500 505 510

Val Arg Arg Val Lys Gly Phe His Ser Cys Cys Tyr Asp Cys Val Asp
515 520 525

Cys Lys Ala Gly Ser Tyr Arg Lys His Pro Asp Asp Phe Thr Cys Thr
530 535 540

MON-0345.ST25.txt

Pro Cys Gly Lys Asp Gln Trp Ser Pro Glu Lys Ser Thr Thr Cys Leu
545 550 555 560

Pro Arg Arg Pro Lys Phe Leu Ala Trp Gly Glu Pro Ala Val Leu Ser
565 570 575

Leu Leu Leu Leu Leu Cys Leu Val Leu Gly Leu Thr Leu Ala Ala Leu
580 585 590

Gly Leu Phe Val His Tyr Trp Asp Ser Pro Leu Val Gln Ala Ser Gly
595 600 605

Gly Ser Leu Phe Cys Phe Gly Leu Ile Cys Leu Gly Leu Phe Cys Leu
610 615 620

Ser Val Leu Leu Phe Pro Gly Arg Pro Arg Ser Ala Ser Cys Leu Ala
625 630 635 640

Gln Gln Pro Met Ala His Leu Pro Leu Thr Gly Cys Leu Ser Thr Leu
645 650 655

Phe Leu Gln Ala Ala Glu Ile Phe Val Glu Ser Glu Leu Pro Leu Ser
660 665 670

Trp Ala Asn Trp Leu Cys Ser Tyr Leu Arg Gly Pro Trp Ala Trp Leu
675 680 685

Val Val Leu Leu Ala Thr Leu Val Glu Ala Ala Leu Cys Ala Trp Tyr
690 695 700

Leu Met Ala Phe Pro Pro Glu Val Val Thr Asp Trp Gln Val Leu Pro
705 710 715 720

Thr Glu Val Leu Glu His Cys Arg Met Arg Ser Trp Val Ser Leu Gly
725 730 735

Leu Val His Ile Thr Asn Ala Val Leu Ala Phe Leu Cys Phe Leu Gly
740 745 750

Thr Phe Leu Val Gln Ser Gln Pro Gly Arg Tyr Asn Arg Ala Arg Gly
755 760 765

Leu Thr Phe Ala Met Leu Ala Tyr Phe Ile Ile Trp Val Ser Phe Val
770 775 780

Pro Leu Leu Ala Asn Val Gln Val Ala Tyr Gln Pro Ala Val Gln Met
785 790 795 800

Gly Ala Ile Leu Phe Cys Ala Leu Gly Ile Leu Ala Thr Phe His Leu
805 810 815

MON-0345.ST25.txt

Pro Lys Cys Tyr Val Leu Leu Trp Leu Pro Glu Leu Asn Thr Gln Glu
820 825 830

Phe Phe Leu Gly Arg Ser Pro Lys Glu Ala Ser Asp Gly Asn Ser Gly
835 840 845

Ser Ser Glu Ala Thr Arg Gly His Ser Glu
850 855

<210> 15
<211> 842
<212> PRT
<213> Mus musculus

<400> 15

Met Leu Phe Trp Ala Ala His Leu Leu Leu Ser Leu Gln Leu Ala Val
1 5 10 15

Ala Tyr Cys Trp Ala Phe Ser Cys Gln Arg Thr Glu Ser Ser Pro Gly
20 25 30

Phe Ser Leu Pro Gly Asp Phe Leu Leu Ala Gly Leu Phe Ser Leu His
35 40 45

Ala Asp Cys Leu Gln Val Arg His Arg Pro Leu Val Thr Ser Cys Asp
50 55 60

Arg Ser Asp Ser Phe Asn Gly His Gly Tyr His Leu Phe Gln Ala Met
65 70 75 80

Arg Phe Thr Val Glu Glu Ile Asn Asn Ser Thr Ala Leu Leu Pro Asn
85 90 95

Ile Thr Leu Gly Tyr Glu Leu Tyr Asp Val Cys Ser Glu Ser Ser Asn
100 105 110

Val Tyr Ala Thr Leu Arg Val Leu Ala Gln Gln Gly Thr Gly His Leu
115 120 125

Glu Met Gln Arg Asp Leu Arg Asn His Ser Ser Lys Val Val Ala Leu
130 135 140

Ile Gly Pro Asp Asn Thr Asp His Ala Val Thr Thr Ala Ala Leu Leu
145 150 155 160

Ser Pro Phe Leu Met Pro Leu Val Ser Tyr Glu Ala Ser Ser Val Ile
165 170 175

Leu Ser Gly Lys Arg Lys Phe Pro Ser Phe Leu Arg Thr Ile Pro Ser
180 185 190

MON-0345.ST25.txt

Asp Lys Tyr Gln Val Glu Val Ile Val Arg Leu Leu Gln Ser Phe Gly
195 200 205

Trp Val Trp Ile Ser Leu Val Gly Ser Tyr Gly Asp Tyr Gly Gln Leu
210 215 220

Gly Val Gln Ala Leu Glu Glu Leu Ala Thr Pro Arg Gly Ile Cys Val
225 230 235 240

Ala Phe Lys Asp Val Val Pro Leu Ser Ala Gln Ala Gly Asp Pro Arg
245 250 255

Met Gln Arg Met Met Leu Arg Leu Ala Arg Ala Arg Thr Thr Val Val
260 265 270

Val Val Phe Ser Asn Arg His Leu Ala Gly Val Phe Phe Arg Ser Val
275 280 285

Val Leu Ala Asn Leu Thr Gly Lys Val Trp Ile Ala Ser Glu Asp Trp
290 295 300

Ala Ile Ser Thr Tyr Ile Thr Asn Val Pro Gly Ile Gln Gly Ile Gly
305 310 315 320

Thr Val Leu Gly Val Ala Ile Gln Gln Arg Gln Val Pro Gly Leu Lys
325 330 335

Glu Phe Glu Glu Ser Tyr Val Gln Ala Val Met Gly Ala Pro Arg Thr
340 345 350

Cys Pro Glu Gly Ser Trp Cys Gly Thr Asn Gln Leu Cys Arg Glu Cys
355 360 365

His Ala Phe Thr Thr Trp Asn Met Pro Glu Leu Gly Ala Phe Ser Met
370 375 380

Ser Ala Ala Tyr Asn Val Tyr Glu Ala Val Tyr Ala Val Ala His Gly
385 390 395 400

Leu His Gln Leu Leu Gly Cys Thr Ser Gly Thr Cys Ala Arg Gly Pro
405 410 415

Val Tyr Pro Trp Gln Leu Leu Gln Gln Ile Tyr Lys Val Asn Phe Leu
420 425 430

Leu His Lys Lys Thr Val Ala Phe Asp Asp Lys Gly Asp Pro Leu Gly
435 440 445

Tyr Tyr Asp Ile Ile Ala Trp Asp Trp Asn Gly Pro Glu Trp Thr Phe
450 455 460

MON-0345.ST25.txt

Glu Val Ile Gly Ser Ala Ser Leu Ser Pro Val His Leu Asp Ile Asn
465 470 475 480

Lys Thr Lys Ile Gln Trp His Gly Lys Asn Asn Gln Val Pro Val Ser
485 490 495

Val Cys Thr Arg Asp Cys Leu Glu Gly His His Arg Leu Val Met Gly
500 505 510

Ser His His Cys Cys Phe Glu Cys Met Pro Cys Glu Ala Gly Thr Phe
515 520 525

Leu Asn Thr Ser Glu Leu His Thr Cys Gln Pro Cys Gly Thr Glu Glu
530 535 540

Trp Ala Pro Glu Gly Ser Ser Ala Cys Phe Ser Arg Thr Val Glu Phe
545 550 555 560

Leu Gly Trp His Glu Pro Ile Ser Leu Val Leu Leu Ala Ala Asn Thr
565 570 575

Leu Leu Leu Leu Leu Ile Gly Thr Ala Gly Leu Phe Ala Trp Arg
580 585 590

Leu His Thr Pro Val Val Arg Ser Ala Gly Gly Arg Leu Cys Phe Leu
595 600 605

Met Leu Gly Ser Leu Val Ala Gly Ser Cys Ser Leu Tyr Ser Phe Phe
610 615 620

Gly Lys Pro Thr Val Pro Ala Cys Leu Leu Arg Gln Pro Leu Phe Ser
625 630 635 640

Leu Gly Phe Ala Ile Phe Leu Ser Cys Leu Thr Ile Arg Ser Phe Gln
645 650 655

Leu Val Ile Ile Phe Lys Phe Ser Thr Lys Val Pro Thr Phe Tyr His
660 665 670

Thr Trp Ala Gln Asn His Gly Ala Gly Ile Phe Val Ile Val Ser Ser
675 680 685

Thr Val His Leu Phe Leu Cys Leu Thr Trp Leu Ala Met Trp Thr Pro
690 695 700

Arg Pro Thr Arg Glu Tyr Gln Arg Phe Pro His Leu Val Ile Leu Glu
705 710 715 720

Cys Thr Glu Val Asn Ser Val Gly Phe Leu Val Ala Phe Ala His Asn
725 730 735

MON-0345.ST25.txt

Ile Leu Leu Ser Ile Ser Thr Phe Val Cys Ser Tyr Leu Gly Lys Glu
740 745 750

Leu Pro Glu Asn Tyr Asn Glu Ala Lys Cys Val Thr Phe Ser Leu Leu
755 760 765

Leu His Phe Val Ser Trp Ile Ala Phe Phe Thr Met Ser Ser Ile Tyr
770 775 780

Gln Gly Ser Tyr Leu Pro Ala Val Asn Val Leu Ala Gly Leu Ala Thr
785 790 795 800

Leu Ser Gly Gly Phe Ser Gly Tyr Phe Leu Pro Lys Cys Tyr Val Ile
805 810 815

Leu Cys Arg Pro Glu Leu Asn Asn Thr Glu His Phe Gln Ala Ser Ile
820 825 830

Gln Asp Tyr Thr Arg Arg Cys Gly Thr Thr
835 840

<210> 16

<211> 840

<212> PRT

<213> Rattus rattus

<400> 16

Met Leu Phe Trp Ala Ala His Leu Leu Leu Ser Leu Gln Leu Val Tyr
1 5 10 15

Cys Trp Ala Phe Ser Cys Gln Arg Thr Glu Ser Ser Pro Gly Phe Ser
20 25 30

Leu Pro Gly Asp Phe Leu Leu Ala Gly Leu Phe Ser Leu His Gly Asp
35 40 45

Cys Leu Gln Val Arg His Arg Pro Leu Val Thr Ser Cys Asp Arg Pro
50 55 60

Asp Ser Phe Asn Gly His Gly Tyr His Leu Phe Gln Ala Met Arg Phe
65 70 75 80

Thr Val Glu Glu Ile Asn Asn Ser Ser Ala Leu Leu Pro Asn Ile Thr
85 90 95

Leu Gly Tyr Glu Leu Tyr Asp Val Cys Ser Glu Ser Ala Asn Val Tyr
100 105 110

Ala Thr Leu Arg Val Leu Ala Leu Gln Gly Pro Arg His Ile Glu Ile
115 120 125

MON-0345.ST25.txt

Gln Lys Asp Leu Arg Asn His Ser Ser Lys Val Val Ala Phe Ile Gly
 130 135 140

Pro Asp Asn Thr Asp His Ala Val Thr Thr Ala Ala Leu Leu Gly Pro
 145 150 155 160

Phe Leu Met Pro Leu Val Ser Tyr Glu Ala Ser Ser Val Val Leu Ser
 165 170 175

Ala Lys Arg Lys Phe Pro Ser Phe Leu Arg Thr Val Pro Ser Asp Arg
 180 185 190

His Gln Val Glu Val Met Val Gln Leu Leu Gln Ser Phe Gly Trp Val
 195 200 205

Trp Ile Ser Leu Ile Gly Ser Tyr Gly Asp Tyr Gly Gln Leu Gly Val
 210 215 220

Gln Ala Leu Glu Glu Leu Ala Val Pro Arg Gly Ile Cys Val Ala Phe
 225 230 235 240

Lys Asp Ile Val Pro Phe Ser Ala Arg Val Gly Asp Pro Arg Met Gln
 245 250 255

Ser Met Met Gln His Leu Ala Gln Ala Arg Thr Thr Val Val Val Val
 260 265 270

Phe Ser Asn Arg His Leu Ala Arg Val Phe Phe Arg Ser Val Val Leu
 275 280 285

Ala Asn Leu Thr Gly Lys Val Trp Val Ala Ser Glu Asp Trp Ala Ile
 290 295 300

Ser Thr Tyr Ile Thr Ser Val Thr Gly Ile Gln Gly Ile Gly Thr Val
 305 310 315 320

Leu Gly Val Ala Val Gln Gln Arg Gln Val Pro Gly Leu Lys Glu Phe
 325 330 335

Glu Glu Ser Tyr Val Arg Ala Val Thr Ala Ala Pro Ser Ala Cys Pro
 340 345 350

Glu Gly Ser Trp Cys Ser Thr Asn Gln Leu Cys Arg Glu Cys His Thr
 355 360 365

Phe Thr Thr Arg Asn Met Pro Thr Leu Gly Ala Phe Ser Met Ser Ala
 370 375 380

Ala Tyr Arg Val Tyr Glu Ala Val Tyr Ala Val Ala His Gly Leu His
 385 390 395 400

MON-0345.ST25.txt

Gln Leu Leu Gly Cys Thr Ser Glu Ile Cys Ser Arg Gly Pro Val Tyr
 405 410 415

Pro Trp Gln Leu Leu Gln Gln Ile Tyr Lys Val Asn Phe Leu Leu His
 420 425 430 435

Glu Asn Thr Val Ala Phe Asp Asp Asn Gly Asp Thr Leu Gly Tyr Tyr
 435 440 445

Asp Ile Ile Ala Trp Asp Trp Asn Gly Pro Glu Trp Thr Phe Glu Ile
 450 455 460

Ile Gly Ser Ala Ser Leu Ser Pro Val His Leu Asp Ile Asn Lys Thr
 465 470 475 480

Lys Ile Gln Trp His Gly Lys Asn Asn Gln Val Pro Val Ser Val Cys
 485 490 495

Thr Thr Asp Cys Leu Ala Gly His His Arg Val Val Val Gly Ser His
 500 505 510

His Cys Cys Phe Glu Cys Val Pro Cys Glu Ala Gly Thr Phe Leu Asn
 515 520 525

Met Ser Glu Leu His Ile Cys Gln Pro Cys Gly Thr Glu Glu Trp Ala
 530 535 540

Pro Lys Glu Ser Thr Thr Cys Phe Pro Arg Thr Val Glu Phe Leu Ala
 545 550 555 560

Trp His Glu Pro Ile Ser Leu Val Leu Ile Ala Ala Asn Thr Leu Leu
 565 570 575

Leu Leu Leu Leu Val Gly Thr Ala Gly Leu Phe Ala Trp His Phe His
 580 585 590

Thr Pro Val Val Arg Ser Ala Gly Gly Arg Leu Cys Phe Leu Met Leu
 595 600 605

Gly Ser Leu Val Ala Gly Ser Cys Ser Phe Tyr Ser Phe Phe Gly Glu
 610 615 620

Pro Thr Val Pro Ala Cys Leu Leu Arg Gln Pro Leu Phe Ser Leu Gly
 625 630 635 640

Phe Ala Ile Phe Leu Ser Cys Leu Thr Ile Arg Ser Phe Gln Leu Val
 645 650 655

Ile Ile Phe Lys Phe Ser Thr Lys Val Pro Thr Phe Tyr Arg Thr Trp
 660 665 670

MON-0345.ST25.txt

Ala Gln Asn His Gly Ala Gly Leu Phe Val Ile Val Ser Ser Thr Val
 675 680 685

His Leu Leu Ile Cys Leu Thr Trp Leu Val Met Trp Thr Pro Arg Pro
 690 695 700

Thr Arg Glu Tyr Gln Arg Phe Pro His Leu Val Ile Leu Glu Cys Thr
 705 710 715 720

Glu Val Asn Ser Val Gly Phe Leu Leu Ala Phe Thr His Asn Ile Leu
 725 730 735

Leu Ser Ile Ser Thr Phe Val Cys Ser Tyr Leu Gly Lys Glu Leu Pro
 740 745 750

Glu Asn Tyr Asn Glu Ala Lys Cys Val Thr Phe Ser Leu Leu Leu Asn
 755 760 765

Phe Val Ser Trp Ile Ala Phe Phe Thr Met Ala Ser Ile Tyr Gln Gly
 770 775 780

Ser Tyr Leu Pro Ala Val Asn Val Leu Ala Gly Leu Thr Thr Leu Ser
 785 790 795 800

Gly Gly Phe Ser Gly Tyr Phe Leu Pro Lys Cys Tyr Val Ile Leu Cys
 805 810 815

Arg Pro Glu Leu Asn Asn Thr Glu His Phe Gln Ala Ser Ile Gln Asp
 820 825 830

Tyr Thr Arg Arg Cys Gly Thr Thr
 835 840

<210> 17

<211> 841

<212> PRT

<213> Homo sapiens

<400> 17

Met Leu Leu Cys Thr Ala Arg Leu Val Gly Leu Gln Leu Leu Ile Ser
 1 5 10 15

Cys Cys Trp Ala Phe Ala Cys His Ser Thr Glu Ser Ser Pro Asp Phe
 20 25 30

Thr Leu Pro Gly Asp Tyr Leu Leu Ala Gly Leu Phe Pro Leu His Ser
 35 40 45

Gly Cys Leu Gln Val Arg His Arg Pro Glu Val Thr Leu Cys Asp Arg
 50 55 60

Ser Cys Ser Phe Asn Glu His Gly Tyr His Leu Phe Gln Ala Met Arg
 Page 34

65

70

75

80

Leu Gly Val Glu Glu Ile Asn Asn Ser Thr Ala Leu Leu Pro Asn Ile
 85 90 95

Thr Leu Gly Tyr Gln Leu Tyr Asp Val Cys Ser Asp Ser Ala Asn Val
 100 105 110

Tyr Ala Thr Leu Arg Val Leu Ser Leu Pro Gly Gln His His Ile Glu
 115 120 125

Leu Gln Gly Asp Leu Leu His Tyr Ser Pro Thr Val Leu Ala Val Ile
 130 135 140

Gly Pro Asp Ser Thr Asn Arg Ala Ala Thr Thr Ala Ala Leu Leu Ser
 145 150 155 160

Pro Phe Leu Val Pro Met Ile Ser Tyr Ala Ala Ser Ser Glu Thr Leu
 165 170 175

Ser Val Lys Arg Gln Tyr Pro Ser Phe Leu Arg Thr Ile Pro Asn Asp
 180 185 190

Lys Tyr Gln Val Glu Thr Met Val Leu Leu Leu Gln Lys Phe Gly Trp
 195 200 205

Thr Trp Ile Ser Leu Val Gly Ser Ser Asp Asp Tyr Gly Gln Leu Gly
 210 215 220

Val Gln Ala Leu Glu Asn Gln Ala Thr Gly Gln Gly Ile Cys Ile Ala
 225 230 235 240

Phe Lys Asp Ile Met Pro Phe Ser Ala Gln Val Gly Asp Glu Arg Met
 245 250 255

Gln Cys Leu Met Arg His Leu Ala Gln Ala Gly Ala Thr Val Val Val
 260 265 270

Val Phe Ser Ser Arg Gln Leu Ala Arg Val Phe Phe Glu Ser Val Val
 275 280 285

Leu Thr Asn Leu Thr Gly Lys Val Trp Val Ala Ser Glu Ala Trp Ala
 290 295 300

Leu Ser Arg His Ile Thr Gly Val Pro Gly Ile Gln Arg Ile Gly Met
 305 310 315 320

Val Leu Gly Val Ala Ile Gln Lys Arg Ala Val Pro Gly Leu Lys Ala
 325 330 335

Phe Glu Glu Ala Tyr Ala Arg Ala Asp Lys Lys Ala Pro Arg Pro Cys
 Page 35

340

345

350

His Lys Gly Ser Trp Cys Ser Ser Asn Gln Leu Cys Arg Glu Cys Gln
 355 360 365

Ala Phe Met Ala His Thr Met Pro Lys Leu Lys Ala Phe Ser Met Ser
 370 375 380

Ser Ala Tyr Asn Ala Tyr Arg Ala Val Tyr Ala Val Ala His Gly Leu
 385 390 395 400

His Gln Leu Leu Gly Cys Ala Ser Gly Ala Cys Ser Arg Gly Arg Val
 405 410 415

Tyr Pro Trp Gln Leu Leu Glu Gln Ile His Lys Val His Phe Leu Leu
 420 425 430

His Lys Asp Thr Val Ala Phe Asn Asp Asn Arg Asp Pro Leu Ser Ser
 435 440 445

Tyr Asn Ile Ile Ala Trp Asp Trp Asn Gly Pro Lys Trp Thr Phe Thr
 450 455 460

Val Leu Gly Ser Ser Thr Trp Ser Pro Val Gln Leu Asn Ile Asn Glu
 465 470 475 480

Thr Lys Ile Gln Trp His Gly Lys Asp Asn Gln Val Pro Lys Ser Val
 485 490 495

Cys Ser Ser Asp Cys Leu Glu Gly His Gln Arg Val Val Thr Gly Phe
 500 505 510

His His Cys Cys Phe Glu Cys Val Pro Cys Gly Ala Gly Thr Phe Leu
 515 520 525

Asn Lys Ser Asp Leu Tyr Arg Cys Gln Pro Cys Gly Lys Glu Glu Trp
 530 535 540

Ala Pro Glu Gly Ser Gln Thr Cys Phe Pro Arg Thr Val Val Phe Leu
 545 550 555 560

Ala Leu Arg Glu His Thr Ser Trp Val Leu Leu Ala Ala Asn Thr Leu
 565 570 575

Leu Leu Leu Leu Leu Gly Thr Ala Gly Leu Phe Ala Trp His Leu
 580 585 590

Asp Thr Pro Val Val Arg Ser Ala Gly Gly Arg Leu Cys Phe Leu Met
 595 600 605

Leu Gly Ser Leu Ala Ala Gly Ser Gly Ser Leu Tyr Gly Phe Phe Gly
 Page 36

MON-0345.ST25.txt

Glu Pro Thr Arg Pro Ala Cys Leu Leu Arg Gln Ala Leu Phe Ala Leu
 625 630 635 640

Gly Phe Thr Ile Phe Leu Ser Cys Leu Thr Val Arg Ser Phe Gln Leu
 645 650 655

Ile Ile Ile Phe Lys Phe Ser Thr Lys Val Pro Thr Phe Tyr His Ala
 660 665 670

Trp Val Gln Asn His Gly Ala Gly Leu Phe Val Met Ile Ser Ser Ala
 675 680 685

Ala Gln Leu Leu Ile Cys Leu Thr Trp Leu Val Val Trp Thr Pro Leu
 690 695 700

Pro Ala Arg Glu Tyr Gln Arg Phe Pro His Leu Val Met Leu Glu Cys
 705 710 715 720

Thr Glu Thr Asn Ser Leu Gly Phe Ile Leu Ala Phe Leu Tyr Asn Gly
 725 730 735

Leu Leu Ser Ile Ser Ala Phe Ala Cys Ser Tyr Leu Gly Lys Asp Leu
 740 745 750

Pro Glu Asn Tyr Asn Glu Ala Lys Cys Val Thr Phe Ser Leu Leu Phe
 755 760 765

Asn Phe Val Ser Trp Ile Ala Phe Phe Thr Thr Ala Ser Val Tyr Asp
 770 775 780

Gly Lys Tyr Leu Pro Ala Ala Asn Met Met Ala Gly Leu Ser Ser Leu
 785 790 795 800

Ser Ser Gly Phe Gly Gly Tyr Phe Leu Pro Lys Cys Tyr Val Ile Leu
 805 810 815

Cys Arg Pro Asp Leu Asn Ser Thr Glu His Phe Gln Ala Ser Ile Gln
 820 825 830

Asp Tyr Thr Arg Arg Cys Gly Ser Thr

835 840

<210> 18
 <211> 843
 <212> PRT
 <213> Mus musculus

<400> 18

Met Gly Pro Gln Ala Arg Thr Leu His Leu Leu Phe Leu Leu His

MON-0345.ST25.txt

Ala Leu Pro Lys Pro Val Met Leu Val Gly Asn Ser Asp Phe His Leu
20 25 30

Ala Gly Asp Tyr Leu Leu Gly Gly Leu Phe Thr Leu His Ala Asn Val
35 40 45

Lys Ser Val Ser His Leu Ser Tyr Leu Gln Val Pro Lys Cys Asn Glu
50 55 60

Tyr Asn Met Lys Val Leu Gly Tyr Asn Leu Met Gln Ala Met Arg Phe
65 70 75 80

Ala Val Glu Glu Ile Asn Asn Cys Ser Ser Leu Leu Pro Gly Val Leu
85 90 95

Leu Gly Tyr Glu Met Val Asp Val Cys Tyr Leu Ser Asn Asn Ile Gln
100 105 110

Pro Gly Leu Tyr Phe Leu Ser Gln Ile Asp Asp Phe Leu Pro Ile Leu
115 120 125

Lys Asp Tyr Ser Gln Tyr Arg Pro Gln Val Val Ala Val Ile Gly Pro
130 135 140

Asp Asn Ser Glu Ser Ala Ile Thr Val Ser Asn Ile Leu Ser Tyr Phe
145 150 155 160

Leu Val Pro Gln Val Thr Tyr Ser Ala Ile Thr Asp Lys Leu Arg Asp
165 170 175

Lys Arg Arg Phe Pro Ala Met Leu Arg Thr Val Pro Ser Ala Thr His
180 185 190

His Ile Glu Ala Met Val Gln Leu Met Val His Phe Gln Trp Asn Trp
195 200 205

Ile Val Val Leu Val Ser Asp Asp Asp Tyr Gly Arg Glu Asn Ser His
210 215 220

Leu Leu Ser Gln Arg Leu Thr Asn Thr Gly Asp Ile Cys Ile Ala Phe
225 230 235 240

Gln Glu Val Leu Pro Val Pro Glu Pro Asn Gln Ala Val Arg Pro Glu
245 250 255

Glu Gln Asp Gln Leu Asp Asn Ile Leu Asp Lys Leu Arg Arg Thr Ser
260 265 270

Ala Arg Val Val Val Ile Phe Ser Pro Glu Leu Ser Leu His Asn Phe
275 280 285

MON-0345.ST25.txt

Phe Arg Glu Val Leu Arg Trp Asn Phe Thr Gly Phe Val Trp Ile Ala
290 295 300

Ser Glu Ser Trp Ala Ile Asp Pro Val Leu His Asn Leu Thr Glu Leu
305 310 315 320

Arg His Thr Gly Thr Phe Leu Gly Val Thr Ile Gln Arg Val Ser Ile
325 330 335

Pro Gly Phe Ser Gln Phe Arg Val Arg His Asp Lys Pro Glu Tyr Pro
340 345 350

Met Pro Asn Glu Thr Ser Leu Arg Thr Thr Cys Asn Gln Asp Cys Asp
355 360 365

Ala Cys Met Asn Ile Thr Glu Ser Phe Asn Asn Val Leu Met Leu Ser
370 375 380

Gly Glu Arg Val Val Tyr Ser Val Tyr Ser Ala Val Tyr Ala Val Ala
385 390 395 400

His Thr Leu His Arg Leu Leu His Cys Asn Gln Val Arg Cys Thr Lys
405 410 415

Gln Ile Val Tyr Pro Trp Gln Leu Leu Arg Glu Ile Trp His Val Asn
420 425 430

Phe Thr Leu Leu Gly Asn Gln Leu Phe Phe Asp Glu Gln Gly Asp Met
435 440 445

Pro Met Leu Leu Asp Ile Ile Gln Trp Gln Trp Gly Leu Ser Gln Asn
450 455 460

Pro Phe Gln Ser Ile Ala Ser Tyr Ser Pro Thr Glu Thr Arg Leu Thr
465 470 475 480

Tyr Ile Ser Asn Val Ser Trp Tyr Thr Pro Asn Asn Thr Val Pro Ile
485 490 495

Ser Met Cys Ser Lys Ser Cys Gln Pro Gly Gln Met Lys Lys Pro Ile
500 505 510

Gly Leu His Pro Cys Cys Phe Glu Cys Val Asp Cys Pro Pro Gly Thr
515 520 525

Tyr Leu Asn Arg Ser Val Asp Glu Phe Asn Cys Leu Ser Cys Pro Gly
530 535 540

Ser Met Trp Ser Tyr Lys Asn Asn Ile Ala Cys Phe Lys Arg Arg Leu
545 550 555 560

MON-0345.ST25.txt

Ala Phe Leu Glu Trp His Glu Val Pro Thr Ile Val Val Thr Ile Leu
565 570 575

Ala Ala Leu Gly Phe Ile Ser Thr Leu Ala Ile Leu Leu Ile Phe Trp
580 585 590

Arg His Phe Gln Thr Pro Met Val Arg Ser Ala Gly Gly Pro Met Cys
595 600 605

Phe Leu Met Leu Val Pro Leu Leu Leu Ala Phe Gly Met Val Pro Val
610 615 620

Tyr Val Gly Pro Pro Thr Val Phe Ser Cys Phe Cys Arg Gln Ala Phe
625 630 635 640

Phe Thr Val Cys Phe Ser Val Cys Leu Ser Cys Ile Thr Val Arg Ser
645 650 655

Phe Gln Ile Val Cys Val Phe Lys Met Ala Arg Arg Leu Pro Ser Ala
660 665 670

Tyr Gly Phe Trp Met Arg Tyr His Gly Pro Tyr Val Phe Val Ala Phe
675 680 685

Ile Thr Ala Val Lys Val Ala Leu Val Ala Gly Asn Met Leu Ala Thr
690 695 700

Thr Ile Asn Pro Ile Gly Arg Thr Asp Pro Asp Asp Pro Asn Ile Ile
705 710 715 720

Ile Leu Ser Cys His Pro Asn Tyr Arg Asn Gly Leu Leu Phe Asn Thr
725 730 735

Ser Met Asp Leu Leu Leu Ser Val Leu Gly Phe Ser Phe Ala Tyr Val
740 745 750

Gly Lys Glu Leu Pro Thr Asn Tyr Asn Glu Ala Lys Phe Ile Thr Leu
755 760 765

Ser Met Thr Phe Ser Phe Thr Ser Ser Ile Ser Leu Cys Thr Phe Met
770 775 780

Ser Val His Asp Gly Val Leu Val Thr Ile Met Asp Leu Leu Val Thr
785 790 795 800

Val Leu Asn Phe Leu Ala Ile Gly Leu Gly Tyr Phe Gly Pro Lys Cys
805 810 815

Tyr Met Ile Leu Phe Tyr Pro Glu Arg Asn Thr Ser Ala Tyr Phe Asn
820 825 830

MON-0345.ST25.txt

Ser Met Ile Gln Gly Tyr Thr Met Arg Lys Ser
835 840

<210> 19
<211> 843
<212> PRT
<213> Rattus rattus
<400> 19

Met Gly Pro Gln Ala Arg Thr Leu Cys Leu Leu Ser Leu Leu Leu His
1 5 10 15

Val Leu Pro Lys Pro Gly Lys Leu Val Glu Asn Ser Asp Phe His Leu
20 25 30

Ala Gly Asp Tyr Leu Leu Gly Gly Leu Phe Thr Leu His Ala Asn Val
35 40 45

Lys Ser Ile Ser His Leu Ser Tyr Leu Gln Val Pro Lys Cys Asn Glu
50 55 60

Phe Thr Met Lys Val Leu Gly Tyr Asn Leu Met Gln Ala Met Arg Phe
65 70 75 80

Ala Val Glu Glu Ile Asn Asn Cys Ser Ser Leu Leu Pro Gly Val Leu
85 90 95

Leu Gly Tyr Glu Met Val Asp Val Cys Tyr Leu Ser Asn Asn Ile His
100 105 110

Pro Gly Leu Tyr Phe Leu Ala Gln Asp Asp Asp Leu Leu Pro Ile Leu
115 120 125

Lys Asp Tyr Ser Gln Tyr Met Pro His Val Val Ala Val Ile Gly Pro
130 135 140

Asp Asn Ser Glu Ser Ala Ile Thr Val Ser Asn Ile Leu Ser His Phe
145 150 155 160

Leu Ile Pro Gln Ile Thr Tyr Ser Ala Ile Ser Asp Lys Leu Arg Asp
165 170 175

Lys Arg His Phe Pro Ser Met Leu Arg Thr Val Pro Ser Ala Thr His
180 185 190

His Ile Glu Ala Met Val Gln Leu Met Val His Phe Gln Trp Asn Trp
195 200 205

Ile Val Val Leu Val Ser Asp Asp Asp Tyr Gly Arg Glu Asn Ser His
210 215 220

MON-0345.ST25.txt

Leu Leu Ser Gln Arg Leu Thr Lys Thr Ser Asp Ile Cys Ile Ala Phe
225 230 235 240

Gln Glu Val Leu Pro Ile Pro Glu Ser Ser Gln Val Met Arg Ser Glu
245 250 255

Glu Gln Arg Gln Leu Asp Asn Ile Leu Asp Lys Leu Arg Arg Thr Ser
260 265 270

Ala Arg Val Val Val Phe Ser Pro Glu Leu Ser Leu Tyr Ser Phe
275 280 285

Phe His Glu Val Leu Arg Trp Asn Phe Thr Gly Phe Val Trp Ile Ala
290 295 300

Ser Glu Ser Trp Ala Ile Asp Pro Val Leu His Asn Leu Thr Glu Leu
305 310 315 320

Arg His Thr Gly Thr Phe Leu Gly Val Thr Ile Gln Arg Val Ser Ile
325 330 335

Pro Gly Phe Ser Gln Phe Arg Val Arg Arg Asp Lys Pro Gly Tyr Pro
340 345 350

Val Pro Asn Thr Thr Asn Leu Arg Thr Thr Cys Asn Gln Asp Cys Asp
355 360 365

Ala Cys Leu Asn Thr Thr Lys Ser Phe Asn Asn Ile Leu Ile Leu Ser
370 375 380

Gly Glu Arg Val Val Tyr Ser Val Tyr Ser Ala Val Tyr Ala Val Ala
385 390 395 400

His Ala Leu His Arg Leu Leu Gly Cys Asn Arg Val Arg Cys Thr Lys
405 410 415

Gln Lys Val Tyr Pro Trp Gln Leu Leu Arg Glu Ile Trp His Val Asn
420 425 430

Phe Thr Leu Leu Gly Asn Arg Leu Phe Phe Asp Gln Gln Gly Asp Met
435 440 445

Pro Met Leu Leu Asp Ile Ile Gln Trp Gln Trp Asp Leu Ser Gln Asn
450 455 460

Pro Phe Gln Ser Ile Ala Ser Tyr Ser Pro Thr Ser Lys Arg Leu Thr
465 470 475 480

Tyr Ile Asn Asn Val Ser Trp Tyr Thr Pro Asn Asn Thr Val Pro Val
485 490 495

MON-0345.ST25.txt

Ser Met Cys Ser Lys Ser Cys Gln Pro Gly Gln Met Lys Lys Ser Val
500 505 510

Gly Leu His Pro Cys Cys Phe Glu Cys Leu Asp Cys Met Pro Gly Thr
515 520 525

Tyr Leu Asn Arg Ser Ala Asp Glu Phe Asn Cys Leu Ser Cys Pro Gly
530 535 540

Ser Met Trp Ser Tyr Lys Asn Asp Ile Thr Cys Phe Gln Arg Arg Pro
545 550 555 560

Thr Phe Leu Glu Trp His Glu Val Pro Thr Ile Val Val Ala Ile Leu
565 570 575

Ala Ala Leu Gly Phe Phe Ser Thr Leu Ala Ile Leu Phe Ile Phe Trp
580 585 590

Arg His Phe Gln Thr Pro Met Val Arg Ser Ala Gly Gly Pro Met Cys
595 600 605

Phe Leu Met Leu Val Pro Leu Leu Leu Ala Phe Gly Met Val Pro Val
610 615 620

Tyr Val Gly Pro Pro Thr Val Phe Ser Cys Phe Cys Arg Gln Ala Phe
625 630 635 640

Phe Thr Val Cys Phe Ser Ile Cys Leu Ser Cys Ile Thr Val Arg Ser
645 650 655

Phe Gln Ile Val Cys Val Phe Lys Met Ala Arg Arg Leu Pro Ser Ala
660 665 670

Tyr Ser Phe Trp Met Arg Tyr His Gly Pro Tyr Val Phe Val Ala Phe
675 680 685

Ile Thr Ala Ile Lys Val Ala Leu Val Val Gly Asn Met Leu Ala Thr
690 695 700

Thr Ile Asn Pro Ile Gly Arg Thr Asp Pro Asp Asp Pro Asn Ile Met
705 710 715 720

Ile Leu Ser Cys His Pro Asn Tyr Arg Asn Gly Leu Leu Phe Asn Thr
725 730 735

Ser Met Asp Leu Leu Leu Ser Val Leu Gly Phe Ser Phe Ala Tyr Met
740 745 750

Gly Lys Glu Leu Pro Thr Asn Tyr Asn Glu Ala Lys Phe Ile Thr Leu
755 760 765

MON-0345.ST25.txt

Ser Met Thr Phe Ser Phe Thr Ser Ser Ile Ser Leu Cys Thr Phe Met
770 775 780

Ser Val His Asp Gly Val Leu Val Thr Ile Met Asp Leu Leu Val Thr
785 790 795 800

Val Leu Asn Phe Leu Ala Ile Gly Leu Gly Tyr Phe Gly Pro Lys Cys
805 810 815

Tyr Met Ile Leu Phe Tyr Pro Glu Arg Asn Thr Ser Ala Tyr Phe Asn
820 825 830

Ser Met Ile Gln Gly Tyr Thr Met Arg Lys Ser
835 840

<210> 20
<211> 839
<212> PRT
<213> Homo sapiens

<400> 20

Met Gly Pro Arg Ala Lys Thr Ile Cys Ser Leu Phe Phe Leu Leu Trp
1 5 10 15

Val Leu Ala Glu Pro Ala Glu Asn Ser Asp Phe Tyr Leu Pro Gly Asp
20 25 30

Tyr Leu Leu Gly Gly Leu Phe Ser Leu His Ala Asn Met Lys Gly Ile
35 40 45

Val His Leu Asn Phe Leu Gln Val Pro Met Cys Lys Glu Tyr Glu Val
50 55 60

Lys Val Ile Gly Tyr Asn Leu Met Gln Ala Met Arg Phe Ala Val Glu
65 70 75 80

Glu Ile Asn Asn Asp Ser Ser Leu Leu Pro Gly Val Leu Leu Gly Tyr
85 90 95

Glu Ile Val Asp Val Cys Tyr Ile Ser Asn Asn Val Gln Pro Val Leu
100 105 110

Tyr Phe Leu Ala His Glu Asp Asn Leu Leu Pro Ile Gln Glu Asp Tyr
115 120 125

Ser Asn Tyr Ile Ser Arg Val Val Ala Val Ile Gly Pro Asp Asn Ser
130 135 140

Glu Ser Val Met Thr Val Ala Asn Phe Leu Ser Leu Phe Leu Leu Pro
145 150 155 160

MON-0345.ST25.txt

Gln Ile Thr Tyr Ser Ala Ile Ser Asp Glu Leu Arg Asp Lys Val Arg
 165 170 175

 Phe Pro Ala Leu Leu Arg Thr Thr Pro Ser Ala Asp His His Val Glu
 180 185 190

 Ala Met Val Gln Leu Met Leu His Phe Arg Trp Asn Trp Ile Ile Val
 195 200 205

 Leu Val Ser Ser Asp Thr Tyr Gly Arg Asp Asn Gly Gln Leu Leu Gly
 210 215 220

 Glu Arg Val Ala Arg Arg Asp Ile Cys Ile Ala Phe Gln Glu Thr Leu
 225 230 235 240

 Pro Thr Leu Gln Pro Asn Gln Asn Met Thr Ser Glu Glu Arg Gln Arg
 245 250 255

 Leu Val Thr Ile Val Asp Lys Leu Gln Gln Ser Thr Ala Arg Val Val
 260 265 270

 Val Val Phe Ser Pro Asp Leu Thr Leu Tyr His Phe Phe Asn Glu Val
 275 280 285

 Leu Arg Gln Asn Phe Thr Gly Ala Val Trp Ile Ala Ser Glu Ser Trp
 290 295 300

 Ala Ile Asp Pro Val Leu His Asn Leu Thr Glu Leu Gly His Leu Gly
 305 310 315 320

 Thr Phe Leu Gly Ile Thr Ile Gln Ser Val Pro Ile Pro Gly Phe Ser
 325 330 335

 Glu Phe Arg Glu Trp Gly Pro Gln Ala Gly Pro Pro Pro Leu Ser Arg
 340 345 350

 Thr Ser Gln Ser Tyr Thr Cys Asn Gln Glu Cys Asp Asn Cys Leu Asn
 355 360 365

 Ala Thr Leu Ser Phe Asn Thr Ile Leu Arg Leu Ser Gly Glu Arg Val
 370 375 380

 Val Tyr Ser Val Tyr Ser Ala Val Tyr Ala Val Ala His Ala Leu His
 385 390 395 400

 Ser Leu Leu Gly Cys Asp Lys Ser Thr Cys Thr Lys Arg Val Val Tyr
 405 410 415

 Pro Trp Gln Leu Leu Glu Glu Ile Trp Lys Val Asn Phe Thr Leu Leu
 420 425 430

MON-0345.ST25.txt

Asp His Gln Ile Phe Phe Asp Pro Gln Gly Asp Val Ala Leu His Leu
 435 440 445

Glu Ile Val Gln Trp Gln Trp Asp Arg Ser Gln Asn Pro Phe Gln Ser
 450 455 460

Val Ala Ser Tyr Tyr Pro Leu Gln Arg Gln Leu Lys Asn Ile Gln Asp
 465 470 475 480

Ile Ser Trp His Thr Val Asn Asn Thr Ile Pro Met Ser Met Cys Ser
 485 490 495

Lys Arg Cys Gln Ser Gly Gln Lys Lys Pro Val Gly Ile His Val
 500 505 510

Cys Cys Phe Glu Cys Ile Asp Cys Leu Pro Gly Thr Phe Leu Asn His
 515 520 525

Thr Glu Asp Glu Tyr Glu Cys Gln Ala Cys Pro Asn Asn Glu Trp Ser
 530 535 540

Tyr Gln Ser Glu Thr Ser Cys Phe Lys Arg Gln Leu Val Phe Leu Glu
 545 550 555 560

Trp His Glu Ala Pro Thr Ile Ala Val Ala Leu Leu Ala Ala Leu Gly
 565 570 575

Phe Leu Ser Thr Leu Ala Ile Leu Val Ile Phe Trp Arg His Phe Gln
 580 585 590

Thr Pro Ile Val Arg Ser Ala Gly Gly Pro Met Cys Phe Leu Met Leu
 595 600 605

Thr Leu Leu Leu Val Ala Tyr Met Val Val Pro Val Tyr Val Gly Pro
 610 615 620

Pro Lys Val Ser Thr Cys Leu Cys Arg Gln Ala Leu Phe Pro Leu Cys
 625 630 635 640

Phe Thr Ile Cys Ile Ser Cys Ile Ala Val Arg Ser Phe Gln Ile Val
 645 650 655

Cys Ala Phe Lys Met Ala Ser Arg Phe Pro Arg Ala Tyr Ser Tyr Trp
 660 665 670

Val Arg Tyr Gln Gly Pro Tyr Val Ser Met Ala Phe Ile Thr Val Leu
 675 680 685

Lys Met Val Ile Val Val Ile Gly Met Leu Ala Thr Gly Leu Ser Pro
 690 695 700

MON-0345.ST25.txt

Thr Thr Arg Thr Asp Pro Asp Asp Pro Lys Ile Thr Ile Val Ser Cys
705 710 715 720

Asn Pro Asn Tyr Arg Asn Ser Leu Leu Phe Asn Thr Ser Leu Asp Leu
725 730 735

Leu Leu Ser Val Val Gly Phe Ser Phe Ala Tyr Met Gly Lys Glu Leu
740 745 750

Pro Thr Asn Tyr Asn Glu Ala Lys Phe Ile Thr Leu Ser Met Thr Phe
755 760 765

Tyr Phe Thr Ser Ser Val Ser Leu Cys Thr Phe Met Ser Ala Tyr Ser
770 775 780

Gly Val Leu Val Thr Ile Val Asp Leu Leu Val Thr Val Leu Asn Leu
785 790 795 800

Leu Ala Ile Ser Leu Gly Tyr Phe Gly Pro Lys Cys Tyr Met Ile Leu
805 810 815

Phe Tyr Pro Glu Arg Asn Thr Pro Ala Tyr Phe Asn Ser Met Ile Gln
820 825 830

Gly Tyr Thr Met Arg Arg Asp
835

<210> 21

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Overgo probes

<400> 21

actttgagaa catgagtaat gacg

24

<210> 22

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Overgo probes

<400> 22

agtacccgga ctgcgtcgta atta

24

<210> 23

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Overgo probes

MON-0345.ST25.txt

| | | |
|-----------------------------|---------------------|----|
| <400> | 23 | |
| cactagggtc atccttgctt tcag | | 24 |
| <210> | 24 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Overgo probes | |
| <400> | 24 | |
| agtcaagggtg atgggcctga aagc | | 24 |
| <210> | 25 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Overgo probes | |
| <400> | 25 | |
| atgtggtgga ctggctgtac catc | | 24 |
| <210> | 26 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Overgo probes | |
| <400> | 26 | |
| ttgaagccct ccacgtgatg gtac | | 24 |
| <210> | 27 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Overgo probes | |
| <400> | 27 | |
| cacacggta acaagatcac cttc | | 24 |
| <210> | 28 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Overgo probes | |
| <400> | 28 | |
| agtagcactg ctcggagaag gtga | | 24 |
| <210> | 29 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |

MON-0345.ST25.txt

| | | |
|-------|-----------------------------|----|
| <220> | | |
| <223> | Overgo probes | |
| <400> | 29 | |
| | atctaccaca tggacgagga ggag | 24 |
| <210> | 30 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Overgo probes | |
| <400> | 30 | |
| | tgaccaggta cggcgtctcc tcct | 24 |
| <210> | 31 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Overgo probes | |
| <400> | 31 | |
| | agcgcgta c gctggccgac ttca | 24 |
| <210> | 32 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Overgo probes | |
| <400> | 32 | |
| | ttgctgagca cgttcttcaa gtcg | 24 |
| <210> | 33 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Overgo probes | |
| <400> | 33 | |
| | cacgcctaca aattcttctt taag | 24 |
| <210> | 34 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Overgo probes | |
| <400> | 34 | |
| | agtccctggtc catggactta aaga | 24 |

MON-0345.ST25.txt

| | |
|------------------------------|----|
| <210> 35 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |
| <400> 35 | |
| cttccactcc tgctgctacg actg | 24 |
| <210> 36 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |
| <400> 36 | |
| tgcctcgcag tccacgcagt cgta | 24 |
| <210> 37 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |
| <400> 37 | |
| aggtagcgccg cgtcaagggc ttcc | 24 |
| <210> 38 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |
| <400> 38 | |
| tcgtacgcaggc aggagtggaa gccc | 24 |
| <210> 39 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |
| <400> 39 | |
| gttcctggca tggggggagc cggc | 24 |
| <210> 40 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |

MON-0345.ST25.txt

<400> 40
gagcagcaca agcacagccg gctc 24

<210> 41
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 41
acagccccact agttcaggcc gcag 24

<210> 42
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 42
caggccccggg gtccccctgc ggcc 24

<210> 43
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 43
cccactgggtt caggcctcgg gggg 24

<210> 44
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 44
aaagcaggcc aggggcccccc ccga 24

<210> 45
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 45
aggcgctgggt gcactgccgc acac 24

<210> 46
<211> 24
<212> DNA
<213> Artificial Sequence

MON-0345.ST25.txt

<220>
<223> Overgo probes

<400> 46
aagctgaccc aggagcgtgt gcgg 24

<210> 47
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 47
acagaggcac tggtgcaactg ccgc 24

<210> 48
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 48
tgatccagga gtgcacgcgg cagt 24

<210> 49
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 49
accaatgccca cgctggcctt tctc 24

<210> 50
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 50
aagtccccag gaagcagaga aagg 24

<210> 51
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 51
tggtacatgc tgccaatgcc acgc 24

MON-0345.ST25.txt

| | |
|----------------------------|----|
| <210> 52 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |
| <400> 52 | |
| aagcagagga aagccagcgt ggca | 24 |
| <210> 53 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |
| <400> 53 | |
| tacaaccgtg cccgtggcct cacc | 24 |
| <210> 54 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |
| <400> 54 | |
| aggccagcat ggcgaaggta aggc | 24 |
| <210> 55 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |
| <400> 55 | |
| tcatcacctg ggtctccctt gtgc | 24 |
| <210> 56 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |
| <400> 56 | |
| acattggcca ggaggggac aaag | 24 |
| <210> 57 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Overgo probes | |

MON-0345.ST25.txt

<400> 57
tgccatggg tgccctcctg ctct

24

<210> 58
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Overgo probes

<400> 58
aggatgccca gcacacagag cagg

24

<210> 59
<211> 9049
<212> DNA
<213> Felis catus

<220>
<221> misc_feature
<222> (14)..(14)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (47)..(47)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (56)..(56)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (67)..(67)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2113)..(2113)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2121)..(2121)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2125)..(2132)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2138)..(2138)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4198)..(4198)
<223> n is a, c, g, or t

<220>

MON-0345.ST25.txt

<221> misc_feature
<222> (4232)..(4232)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4237)..(4237)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4256)..(4256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4264)..(4264)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4272)..(4272)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4298)..(4298)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4328)..(4328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4341)..(4341)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4343)..(4343)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4354)..(4354)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4386)..(4386)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4389)..(4390)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4399)..(4456)
<223> n is a, c, g, or t

<400> 59
ctggaaaaaa aggngaaccc agatgattc accccaaaat ttcatgtntca gaaaantgag 60

gactggagg aggtcaactt aaagttagtt tcattttgtta aactgaggcc caggtaaaaa 120
Page 55

MON-0345.ST25.txt

| | |
|---|------|
| gttctaaaac ccacagctcc cttccatatt ctgtccccca gagaaggcgt gtccctgcct | 180 |
| tcctctgacc cctgcccccc aagacgcctg ggctcccttt ctgagccggg tgaagccgca | 240 |
| ggcaccagag cgagaacaga acccacaacc atccagaggg aggggcagcg gccaccacct | 300 |
| ggcttgcacc tgtgccttca ccctgcccag ttccctgagta ggaccgcagg cccggaaggc | 360 |
| caaggcaaacc acgcctggttc ctacgactgg gttccagccc cacccctggc acaggcgtga | 420 |
| agttgggaag catctggca gccgctgtct attctattta aacagccgag ctggtcagag | 480 |
| ggtgctggct ggccatgcca ggcacaggac ggactggcca gcatgtcact cccggcggct | 540 |
| cacctggtcg gcctgcagct ctccctctcc tgctgctggg ctctcagctg ccacagcaca | 600 |
| gagacgtctg ccgacttcag cctccctggg gattacctcc tcgcaggtct gttccctctg | 660 |
| cactctgact gtccggcgt gaggcaccgg cccacggta ccctctgtga caggtgagtg | 720 |
| aggggtcccg tgcctctagg acctctgccc atcctctgtc ctccctcagtg aggatcctt | 780 |
| ggttgtttagt tgagtggagt tagggccttt tagagagctg agactctaga agctaaacca | 840 |
| cgtgttgctt tacctgtctt ccaccctgag gatcacacgt taagtgttct taccagtcaa | 900 |
| aattgaatat gtatcaaaca aaaataaaatg gccttccatg ctgaaataac aaaaaacaga | 960 |
| cacgcatgga gaacctactt tgtggggcgc ctgggtggcc cagtcggta agtgtctgcc | 1020 |
| tcttcgtttt ggctcaggc atgacctcgg ggttcatgag ttcgagcccc gcgtcagctc | 1080 |
| cgtgatgagc ctggagcccg cttggaattc cctccccacc cccacccccc gctcatgcca | 1140 |
| gctcgagctc tcgctcactc tctcaaaata aacttaagag gggcgcctgg gtggcgcagt | 1200 |
| cagttaaagcg tccgacttca gccaggtcac gatcagcaca ttatttcctg gacccat | 1260 |
| tctcccttcg ctgtacagag cttaacgtaa actccctggc aagacccctt ttctgatttt | 1320 |
| agaaaaggcca gcttatttgt ttggttcctg taatagctt aaaaatagaat ccagctgtat | 1380 |
| cagggaaacat ttaaaaaaatg tatcaaggaa gacctataac agtaaaaata tttttaatc | 1440 |
| ccagagtgtt ttcataaaaga cacaggatta cattactcaa ttatTTTaa agggTTTtg | 1500 |
| aaaagccgtg tttcacttgc catggctaattt gattataggc atccgaatga gcctgtggct | 1560 |
| atgacttcag tctgttcggg ggaaatgact ctgatgtcat aaactgactc ggcttcgctg | 1620 |
| acagggaaagt cgtacagaag aaaagctgtt cgagccata tgggtgtgc gctcaatgtc | 1680 |
| aggaagggc gacgtaatgt gtgcagaaat gggcagctgt cgagagtgaa gaaattggga | 1740 |
| agttggcacg gaagagggga ccgagtccga gaaggctgct ggataaagca gagctttgc | 1800 |
| agaagagaag ggccggctgc tgtccctatc ctgggtggcgg aaccacttag aaacaaggcg | 1860 |
| tcagaattag agacttcggg tcatgcaggg agggcggccc aggggggtgg cgtccttgg | 1920 |
| aactctggta agtttgagat tgatcccagg ggtcgtggta tggagcctcg catgagactc | 1980 |
| tacactgatc gatgagaagc agaagccct tgcgtgtgag gaaggggaca cgagcagttg | 2040 |
| gcacactaaa acgcaaggac acgtttctac gagaaaacgg tacatctgtc tgcgacacag | 2100 |
| aaagatcccc ggnaccagtc ntcgnnnnnn nnttccgntg ggattccagt cagcagttcc | 2160 |

MON-0345.ST25.txt

| | |
|--|------|
| cgagaggcac tgaggaacac aggcctcac cacgtcaca agtgtcctga tgagagggat | 2220 |
| actaggtaaa cgaggttcga caggtgtggt ggttaatttt atacatcaac ctggctaggg | 2280 |
| tacggtgccc agttgttgg ccaaacadca gtctagatgg ggctgtgaag gttaacattt | 2340 |
| aaaccaacag ggtgagtaaa gcagatcgct ttccattgtg tgggtgggcc tcataccaatc | 2400 |
| agttgaagac cttaaaagaa aagattgagg tcccccaaa aaggaagaaa ttctgccttc | 2460 |
| gaactcaaca ctgcagctt gaccactgag agcattcca gcctgcctg caaacgccag | 2520 |
| actcaccagc cccacaatca tgtgaaccaa ttccctaaaa taaacttctc tttctctctc | 2580 |
| tctatccaac tggttctgtt tctctgcaga accctgactc acgcagcagg tttccctgct | 2640 |
| acaggacttc atcagccccc caaccctaattt atgctcatcc agggaggaat ggtttgtgg | 2700 |
| ttctccaagt tgtaaccgcc cctccccccc cgccccggcc cccccaagg cctgttaaca | 2760 |
| cagctgagt tatggtacag ggcacacagt gaggtcatgg tggtagggga cgggacagat | 2820 |
| gcctcagag tttccttctt acccttcccc ccaccccgaa cgccaaagagg gtctcgca | 2880 |
| ggccttgctc ctctgagctc tcagctggc tttctctaca ggcccacag cttcaacgg | 2940 |
| cacggcttacc acctttcca ggccatgcgg tttggcatcg aggagataaa caactccacg | 3000 |
| gcctcctgc cgaacgtcac cctggatac cagctgtacg acgtgtgctc ggagtctgccc | 3060 |
| aacgtgtatg ccacactaaa cgtgctctcc ctgctgggaa cacatcacgt agagatccga | 3120 |
| gcagaccctt cccactattt gcctgcccgc ctggctgtca ttggcctga caccaccaac | 3180 |
| cacgcagcca ccactgcagc cctgctgagc cccttcctgg tgccctgggat gagctggagc | 3240 |
| ccgggggcct gtccatctcc cctgcccggca ggtccagtgt gggctgaggg ggtgggggg | 3300 |
| tggcaagag ctgccatgcc cactctgagt ctccctgggt gtcacattgc agggggccct | 3360 |
| gccttcata cagtccccgc cccagcatcc cttccttcccc aagtgtgc tccagacctc | 3420 |
| cctgcctcaa tgtcctgaga aaaaccgtct cctttgaaac tgctgcctt tgctctgccc | 3480 |
| cctccattcc atctcctctg tgaagaacgg aacaccctt gttccacc tcacacactt | 3540 |
| gtccacttct cccgccttc ctccctccgg tcccttcctt cccttccttca gtcaggctc | 3600 |
| agaggtgtgg tccccctccc cttccatgc cgtccttcgt ggcctcaccc tccctctgc | 3660 |
| tcgtaggcct gtcctaggct tcctcctccg cctataagct ggcttaccc ctctgtct | 3720 |
| tccaggcacc tgtggctta gcgtgcctt ctctctgaac ctcgttcgtt ggaaacttgt | 3780 |
| gcactgagct ctctttctt gttgtttctt ccctctcatc acttgcttc cggggccctg | 3840 |
| ccctgactgc tgcaccacca ctccgtctct tgtgatctcc agggcttctt agatctccag | 3900 |
| gtccagcaaa tgctttcag cccttcttg cttgacatga cgactttgtg acaaatttga | 3960 |
| ccagtccttc agtgcgttc ttgcctcggc atttatgacc tgccacctcc ctctacttg | 4020 |
| tggtacctcc ttctcagtct cctttggaga atctcctccc cccctttctt gaaaaagtgg | 4080 |
| atgattcccc gagtgcagga ccactccctt tcccaggcag gtgctggag caaacaactt | 4140 |
| tccctactct tcaagaatct ttctggctgg tctaaaaata agttgatgtg acacaganan | 4200 |

MON-0345.ST25.txt

| | |
|--|------|
| aaggaaaagt caaatcacgt atgtacaggg anctacnaaa cacgaaaggtaa | 4260 |
| aagngaggct anctgctatc tgaactatga acaagggnag gggtaaattc aaggaaagaa | 4320 |
| gaaatcanag aaagaagagg nanggtataa aagntgctgg ccatcaaaaa tggaaaggaag | 4380 |
| aattanaann gattggagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn | 4440 |
| nnnnnnnnnn nnnnnnctt ttcccgtcac cggtggccag gttaaattc aggctgcaa | 4500 |
| gctgtttttt gggatgactc cagcagtctc cttagggagtt cttcctgact ctggcttgaa | 4560 |
| gcctttcta acacattctt cactgaaatc agatacaccc ctgaaacaca agtctggca | 4620 |
| gattacctct ctgcctagac atttaagggg ctccccaggg cctgcagata aagaccaagt | 4680 |
| atcttagcta tcttggtgcc aggagtaagg ctcctgccc tgaccagaca cgcctacttt | 4740 |
| tgtgctcctt cttccggctt ccaacccctt gggtcagttc tctcaactggg ttagctttt | 4800 |
| gttctttcc cttcttctc ccacaaacctt cccccctgggt ttctgcctct tcttagatg | 4860 |
| tagctggtcg gcctcctagt ccaccagagc tgccttgag agccagggtt gggaccatgt | 4920 |
| ctccctcctc ctcgggtccc cgcgccagc acagggccag cacttggagg ctctgagtt | 4980 |
| aggccaaggc cactgaagtc gctgaactga accccccccc cggccccctt ccgcagatca | 5040 |
| gctacgaggc cagcagcgtt acgctcgag tgaagcggca ttaccctcg tttctgcga | 5100 |
| ccatccccag cgacaagcac caggtggagg ccatgggtct gctgctgcag agttcgggt | 5160 |
| gggtctggat ctcggtggtc ggcagcgcacg ggcactacgg gcagctgggg gtgcaggcgc | 5220 |
| tggaggagca ggccacccag cagggcatct gcgttgcctt caaggacatc atcccttct | 5280 |
| ctgcccggcc gggcgacgag agatgcaga gcatcatgca ccacctggcc cgagcggaga | 5340 |
| ccaccgttgtt ggtcggtttc tccagcaggc agctggccag ggtgttctt gagtcgggt | 5400 |
| tgctggccaa cctgactgcc aagggtgtga tcgcctcaga agactggcc atctctagac | 5460 |
| acatcagcaa tgtgccccgg atccagggca ttggcacggt gctgggtgt gccatccagc | 5520 |
| agaggcttgtt ccctggcctt aaggagttt aagaggccta tgcaggcaga gataaggggg | 5580 |
| ccctggcc ttgctccagg acctccgagt gcagcagcaa ccagctctgt agagagtgtc | 5640 |
| gggctttcac ggcagagcag atgcccacgc tcggggcatt ctccatgagc tctgcttata | 5700 |
| acgcctaccg ggcagtctac gcagtgccc atggcctcca ccagctcctg ggctgtgcct | 5760 |
| ctggagcctt ttccaggagc cgagtctacc cctggcaggt aaggtagccc agacccggc | 5820 |
| accctgaaac ggggtgtttt cctaaggcaa acagagtgtat ccctctctgg ccaactgagt | 5880 |
| gctgggggtt ggggacaaag gccacccatc agaaggctaa ttccctctct tgggcttcac | 5940 |
| ttctctgacc tcggccccctc ccaccacat gctccagacc cagggtctaaa aatctctgg | 6000 |
| aaacgggcct ttttagaagc ttccctctcac tcaggaggcc agttgggagg gtcgaggggc | 6060 |
| ttccctggaa gggagggggc tctgaatttc cagacagact gaaaccaccc aaatagaagc | 6120 |
| atttgcttcc taagccttcc gggctggaa gagttgagga ggagcagcct gcgtcatctg | 6180 |
| tggctgctcc atgatccccg tttatctcag cttctggagc agatccgcaa ggtgaatttc | 6240 |

MON-0345.ST25.txt

| | |
|--|------|
| ctcctacaca aggacaccgt gaggttaat gacaacgggg accctctcg tggctacgac | 6300 |
| ataattgcct gggactggag tggccccaag tggaaacttca gggtcattgg ctcctccatg | 6360 |
| tggcctccag ttcaagcttga cataaataaa accaaaatcc ggtggcacgg gaaggacaac | 6420 |
| caggtaatgg agccatggtc actcaccaag tcaccgcctt acgggcagcc tggagcctga | 6480 |
| agtcaactgtc gacacagactc acacggagca ggagggggcc ccgggtgcca gcccaacgtg | 6540 |
| gctctatcca gccctgccag ggaagcccc aagccgcac ccagatggcc ggctgcagct | 6600 |
| ggtatacaca accagggct gtgccctgg agtgagctgt gagggcagat gcacggagac | 6660 |
| tcccattcgc catgtgagca tcccttgact tggccactc catgtggttc cagaacacct | 6720 |
| gtggccttctt gcaggtgcca aagtctgtgt gctccagcga ctgcctcgaa gggcaccagc | 6780 |
| gagtgatttc gggtttctac cactgttgct ttgagtgtgt gccctgttag gccggagct | 6840 |
| tcctcaacaa gagcggtgag tgtccaaatg agtggagaa tgactggca ctcccagggt | 6900 |
| ctgtatggca gatgagggga tctcccttgg gccacgcacg tgcagaacca gagccttgct | 6960 |
| ccctctgttg ccagttgagg tacaggttgtt agaatatttgc caccagact gagttctgat | 7020 |
| gaagcagaaaa ccaacaacca gttgaaatcc tcagggcccc tacgtttttt actagaggc | 7080 |
| tcctgatgca atccctgcag atgcaatctt atcctaaatt caacctttt atgcaacag | 7140 |
| atgtagttat gttcccttgtt cccctccat gctgtctgtg tgaagtccct tccgtcgccc | 7200 |
| ctgccaaaga cagccagcac cttggacagc ttggccttga tgcagatact attgtatccg | 7260 |
| cagacaagaa acatagcata ctccacccag tcatggtgca aggtcaagat cagagagcaa | 7320 |
| actcaggttag ctaagggctc agcccagagc tggactctgt gagccacgtt cttccctttt | 7380 |
| actatctctg tggcgttag aacacatctc ttctgttctc agagagtcag agaaaccaca | 7440 |
| gaatggcagc acagataggg ggctttgggt aatggaagcg ctggggagat gaaaatgccc | 7500 |
| ttcctttggg gctggttgtc cctgttgat catgcctca ctggcatgtg ggcagagcta | 7560 |
| ccagagtaag gccctctcta agatctctc ggtttgcag ccccttctgg gatcataagc | 7620 |
| catacagaac ctacccaagg gtctccagaa tctgcaatta acacaggcat ctggaggaaa | 7680 |
| cacttggccg cggggccccca ctcaaggcata cccccttatct cgctgtgtgc agtaggagcc | 7740 |
| cggcttctgg ggtacagcgc tcccaagcacc ttgcaggcct acatggcttc cttccctcat | 7800 |
| tcctgctctg ctcatctagg ctctcaggag cccctccac cttttcttc cagacctcca | 7860 |
| cagctgcccag ccttggggaa aagaagagtggc acatggcttc cttccctcat | 7920 |
| acgcaccgtg gtgttttgc tttggcacga gaccatctt tgggtgtgc tggcagctaa | 7980 |
| tacgttgctg ctgctgctgg tgactggac tgctggcctg tttgcctggc acttagacac | 8040 |
| ccctgtgggt aagtccgctg gggccgact gtgcttcttc atgctaggct ccctggcagg | 8100 |
| gggcagctgt gggctctacg gctttttgg ggagccacg ctgcccacat gcttggcgt | 8160 |
| ccaaagcctc cttgcccctgg gtttgccat cttcctgtcc tgcctgacca tccgctcctt | 8220 |
| ccaaactggtc ttcatcttca agtttctgc caaggtaccc accttctacc gtgcctgggt | 8280 |

MON-0345.ST25.txt

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|------|
| ccaaaaccac | ggtcctggcc | tatttgtggt | gatcagctca | atggcccagc | tgctcatctg | 8340 |
| tctaacttgg | ctggcggtgt | ggaccccact | gccaccagg | gagtaccagc | gcttccctca | 8400 |
| gctgggtgt | cttgattgca | cagaggccaa | ctcacgggc | ttcatgttgg | ctttgccta | 8460 |
| caatggcctc | ctgtccgtca | gcgccttgc | ctgcagctac | ctgggcaagg | acctgccaga | 8520 |
| gaactacaac | gaggccaaat | gtgtcacttt | tagtctgctg | ctcaacttcg | tgtcctggat | 8580 |
| tgccttcttc | accacggcca | gcgtctacca | gggcaagtac | ttgcccgcgg | tcaacgtgct | 8640 |
| ggcggcgctg | agcagcctga | gtggcggctt | cagcggttat | ttcctccccca | agtgctacgt | 8700 |
| gatcctgtgc | cgc当地aaat | ttaacagcac | acagcacttc | caggcctcca | tccaggagta | 8760 |
| cacgaggcgc | tgccgctcca | cctgaccagt | ggggcgggca | gggcctagcc | ggggaggtgg | 8820 |
| gggggtgggg | gtgaaggggt | agaaggtggg | gttagggcgc | ctcccctgcc | ctgagggctcg | 8880 |
| aaggtcgagc | gaggcgagcg | ggcccccgcgc | cctccgggag | gccttttgg | ctcctgtctt | 8940 |
| ggctcgggta | gtgtacgctc | acgggagtcc | agtccaggct | ccgagctgcc | aataaagcgg | 9000 |
| tgaaacatgc | gtcctggctg | ctctagctgt | ctgaaccgag | ggtggggcg | | 9049 |

<210> 60
<211> 2526
<212> DNA
<213> Felis catus

| | | | | | | | |
|----------|------------|-------------|------------|------------|-------------|-------------|------|
| <400> 60 | atgtcactcc | cggcggtca | cctggtcggc | ctgcagctct | ccctctcctg | ctgctggct | 60 |
| | ctcagctgcc | acagcacaga | gacgtctgcc | gacttcagcc | tccctgggaa | ttacccctc | 120 |
| | gcaggtctgt | tccctctgca | ctctgactgt | ccgggcgtga | ggcacccggcc | cacggtgacc | 180 |
| | ctctgtgaca | ggcccgacag | cttcaacggt | cacggctacc | acctcttcca | ggccatgcgg | 240 |
| | tttggcatcg | aggagataaa | caactccacg | gccctcctgc | cgaacgtcac | cctggatac | 300 |
| | cagctgtacg | acgtgtgctc | ggagtctgcc | aacgtgtatg | ccacactaaa | cgtgctctcc | 360 |
| | ctgctgggaa | cacatcacgt | agagatccga | gcagaccctt | cccaactattc | gcctgcccgc | 420 |
| | ctggctgtca | ttgggcctga | caccaccaac | cacgcagcca | ccactgcagc | cctgctgagc | 480 |
| | cccttcctgg | tgccctgtat | cagctacgag | gccagcagcg | tgacgctcgg | agtgaagcgg | 540 |
| | cattaccctt | cgtttctgctg | caccatcccc | agcgacaagc | accaggtgg | ggccatggtg | 600 |
| | ctgctgctgc | agagttcgg | gtgggtctgg | atctcggtgg | tcggcagcga | cgccgactac | 660 |
| | gggcagctgg | gggtgcaggc | gctggaggag | caggccaccc | agcagggcat | ctgcgttgcc | 720 |
| | ttcaaggaca | tcatccccctt | ctctgcccgg | ccgggcgacg | agaggatgca | gagcatcatg | 780 |
| | caccacctgg | cccgagcag | gaccaccgtt | gtggtcgttt | tctccagcag | gcagctggcc | 840 |
| | agggttgtct | ttgagtcgg | ggtgctggcc | aacctgactg | ccaaggtgt | gatgcctca | 900 |
| | gaagactggg | ccatctctag | acacatcagc | aatgtccccg | ggatccaggg | cattggcacg | 960 |
| | gtgctgggtg | tggccatcca | gcagaggctt | gtccctggcc | tgaaggagtt | tgaaggaggcc | 1020 |

MON-0345.ST25.txt

| | |
|--|------|
| tatgtccagg cagataaggg ggcccctggg ctttgcctca ggacctccga gtgcagcagc | 1080 |
| aaccagctct gtagagagtgc tcgggctttc acggcagagc agatgcccac gctcgaaaa | 1140 |
| ttctccatga gctctgccta taacgcctac cgggcagtct acgcagtggc ccatggcctc | 1200 |
| caccagctcc tgggctgtgc ctctggagcc tggccaggg accgagtcta cccctggcag | 1260 |
| cttctggagc agatccgcaa ggtgaatttc ctccatcaca aggacaccgt gaggttaat | 1320 |
| gacaacgggg accctctcag tggctacgac ataattgcct gggactggag tggccccaa | 1380 |
| tggaaacttca gggcattgg ctccatcg tggccatcg ttcagctggc cataaataaa | 1440 |
| accaaaatcc ggtggcacgg gaaggacaac caggtccaa agtctgtgtg ctccagcag | 1500 |
| tgcctcgaag ggcaccagcg agtgatttcg gtttctacc actgttgctt tgagtgtgt | 1560 |
| ccctgtgagg cgggagctt cctcaacaag agcgacctcc acagctgcc a cccctgtggg | 1620 |
| aaagaaaaagt gggcacccgc gggaaagtgaa acctgcattt c acgcaccgt ggtttttt | 1680 |
| acttggcacg agaccatctc ttgggtgctg ctggcagcta atacgttgct gctgctgctg | 1740 |
| gtgactggga ctgctggcct gttgcctgg cacttagaca cccctgtggt gaagtccgct | 1800 |
| ggggccgac tgtgcttctt catgctaggc tccctggcag gggcagctg tggctctac | 1860 |
| ggctttttt gggagccac gctgcccaca tgcttgc gccaaggcct cttgcctg | 1920 |
| ggttttgcca tcttcctgac ctgcctgacc atccgctcct tccaaactggt cttcatctt | 1980 |
| aagttttctg ccaaggtacc cacattctac cgtgcctggg tccaaaacca cggcctggc | 2040 |
| ctatttgtgg tgatcagctc aatggccag ctgctcatct gtctaacttg gctggcggt | 2100 |
| tggacccac tggccaccag ggagtaccag cgctccctc agctgggt gcttgattgc | 2160 |
| acagaggcca actcaccggg cttcatgtt gcttcgcct acaatggcct cctgtccgtc | 2220 |
| agcgccctt g cctgcagcta cctggcaag gacgtccag agaactacaa cgaggccaaa | 2280 |
| tgtgtcactt ttagtctgct gctcaacttc gtgtcctgg tgccttctt caccacggcc | 2340 |
| agcgctacc agggcaagta cttgcccgcg gtcaacgtgc tggcggcgct gagcagcctg | 2400 |
| agtggcggt tcagcggtt tttccccc aagtgcctacg tgatcctgtg ccggccaaa | 2460 |
| tttaacagca cacagcactt ccaggcctcc atccaggagt acacgaggcg ctgcggctcc | 2520 |
| acctga | 2526 |

<210> 61
<211> 841
<212> PRT
<213> *Felis catus*

<400> 61

| | |
|---|--|
| Met Ser Leu Pro Ala Ala His Leu Val Gly Leu Gln Leu Ser Leu Ser | |
| 1 5 10 15 | |

| | |
|---|--|
| Cys Cys Trp Ala Leu Ser Cys His Ser Thr Glu Thr Ser Ala Asp Phe | |
| 20 25 30 | |

MON-0345.ST25.txt

Ser Leu Pro Gly Asp Tyr Leu Leu Ala Gly Leu Phe Pro Leu His Ser
35 40 45

Asp Cys Pro Gly Val Arg His Arg Pro Thr Val Thr Leu Cys Asp Arg
50 55 60

Pro Asp Ser Phe Asn Gly His Gly Tyr His Leu Phe Gln Ala Met Arg
65 70 75 80

Phe Gly Ile Glu Glu Ile Asn Asn Ser Thr Ala Leu Leu Pro Asn Val
85 90 95

Thr Leu Gly Tyr Gln Leu Tyr Asp Val Cys Ser Glu Ser Ala Asn Val
100 105 110

Tyr Ala Thr Leu Asn Val Leu Ser Leu Leu Gly Thr His His Val Glu
115 120 125

Ile Arg Ala Asp Pro Ser His Tyr Ser Pro Ala Ala Leu Ala Val Ile
130 135 140

Gly Pro Asp Thr Thr Asn His Ala Ala Thr Thr Ala Ala Leu Leu Ser
145 150 155 160

Pro Phe Leu Val Pro Leu Ile Ser Tyr Glu Ala Ser Ser Val Thr Leu
165 170 175

Gly Val Lys Arg His Tyr Pro Ser Phe Leu Arg Thr Ile Pro Ser Asp
180 185 190

Lys His Gln Val Glu Ala Met Val Leu Leu Leu Gln Ser Phe Gly Trp
195 200 205

Val Trp Ile Ser Val Val Gly Ser Asp Gly Asp Tyr Gly Gln Leu Gly
210 215 220

Val Gln Ala Leu Glu Glu Gln Ala Thr Gln Gln Gly Ile Cys Val Ala
225 230 235 240

Phe Lys Asp Ile Ile Pro Phe Ser Ala Arg Pro Gly Asp Glu Arg Met
245 250 255

Gln Ser Ile Met His His Leu Ala Arg Ala Arg Thr Thr Val Val Val
260 265 270

Val Phe Ser Ser Arg Gln Leu Ala Arg Val Phe Phe Glu Ser Val Val
275 280 285

Leu Ala Asn Leu Thr Ala Lys Val Trp Ile Ala Ser Glu Asp Trp Ala
290 295 300

MON-0345.ST25.txt

Ile Ser Arg His Ile Ser Asn Val Pro Gly Ile Gln Gly Ile Gly Thr
 305 310 315 320

Val Leu Gly Val Ala Ile Gln Gln Arg Leu Val Pro Gly Leu Lys Glu
 325 330 335

Phe Glu Glu Ala Tyr Val Gln Ala Asp Lys Gly Ala Pro Gly Pro Cys
 340 345 350

Ser Arg Thr Ser Glu Cys Ser Ser Asn Gln Leu Cys Arg Glu Cys Arg
 355 360 365

Ala Phe Thr Ala Glu Gln Met Pro Thr Leu Gly Ala Phe Ser Met Ser
 370 375 380

Ser Ala Tyr Asn Ala Tyr Arg Ala Val Tyr Ala Val Ala His Gly Leu
 385 390 395 400

His Gln Leu Leu Gly Cys Ala Ser Gly Ala Cys Ser Arg Asp Arg Val
 405 410 415

Tyr Pro Trp Gln Leu Leu Glu Gln Ile Arg Lys Val Asn Phe Leu Leu
 420 425 430

His Lys Asp Thr Val Arg Phe Asn Asp Asn Gly Asp Pro Leu Ser Gly
 435 440 445

Tyr Asp Ile Ile Ala Trp Asp Trp Ser Gly Pro Lys Trp Asn Phe Arg
 450 455 460

Val Ile Gly Ser Ser Met Trp Pro Pro Val Gln Leu Asp Ile Asn Lys
 465 470 475 480

Thr Lys Ile Arg Trp His Gly Lys Asp Asn Gln Val Pro Lys Ser Val
 485 490 495

Cys Ser Ser Asp Cys Leu Glu Gly His Gln Arg Val Ile Ser Gly Phe
 500 505 510

Tyr His Cys Cys Phe Glu Cys Val Pro Cys Glu Ala Gly Ser Phe Leu
 515 520 525

Asn Lys Ser Asp Leu His Ser Cys Gln Pro Cys Gly Lys Glu Lys Trp
 530 535 540

Ala Pro Ala Gly Ser Glu Thr Cys Phe Pro Arg Thr Val Val Phe Leu
 545 550 555 560

Thr Trp His Glu Thr Ile Ser Trp Val Leu Leu Ala Ala Asn Thr Leu
 565 570 575

MON-0345.ST25.txt

Leu Leu Leu Leu Val Thr Gly Thr Ala Gly Leu Phe Ala Trp His Leu
 580 585 590

Asp Thr Pro Val Val Lys Ser Ala Gly Gly Arg Leu Cys Phe Phe Met
 595 600 605

Leu Gly Ser Leu Ala Gly Gly Ser Cys Gly Leu Tyr Gly Phe Phe Gly
 610 615 620

Glu Pro Thr Leu Pro Thr Cys Leu Leu Arg Gln Ser Leu Leu Ala Leu
 625 630 635 640

Gly Phe Ala Ile Phe Leu Ser Cys Leu Thr Ile Arg Ser Phe Gln Leu
 645 650 655

Val Phe Ile Phe Lys Phe Ser Ala Lys Val Pro Thr Phe Tyr Arg Ala
 660 665 670

Trp Val Gln Asn His Gly Pro Gly Leu Phe Val Val Ile Ser Ser Met
 675 680 685

Ala Gln Leu Leu Ile Cys Leu Thr Trp Leu Ala Val Trp Thr Pro Leu
 690 695 700

Pro Thr Arg Glu Tyr Gln Arg Phe Pro Gln Leu Val Val Leu Asp Cys
 705 710 715 720

Thr Glu Ala Asn Ser Pro Gly Phe Met Leu Ala Phe Ala Tyr Asn Gly
 725 730 735

Leu Leu Ser Val Ser Ala Phe Ala Cys Ser Tyr Leu Gly Lys Asp Leu
 740 745 750

Pro Glu Asn Tyr Asn Glu Ala Lys Cys Val Thr Phe Ser Leu Leu Leu
 755 760 765

Asn Phe Val Ser Trp Ile Ala Phe Phe Thr Thr Ala Ser Val Tyr Gln
 770 775 780

Gly Lys Tyr Leu Pro Ala Val Asn Val Leu Ala Ala Leu Ser Ser Leu
 785 790 795 800

Ser Gly Gly Phe Ser Gly Tyr Phe Leu Pro Lys Cys Tyr Val Ile Leu
 805 810 815

Cys Arg Pro Lys Phe Asn Ser Thr Gln His Phe Gln Ala Ser Ile Gln
 820 825 830

Glu Tyr Thr Arg Arg Cys Gly Ser Thr
 835 840

MON-0345.ST25.txt

<210> 62
<211> 10607
<212> DNA
<213> *Felis catus*

<220>
<221> misc_feature
<222> (1604)..(1683)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2470)..(2516)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2537)..(2537)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2560)..(2560)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2574)..(2574)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2580)..(2580)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2599)..(2599)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (2850)..(2850)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (5784)..(5830)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (7512)..(7553)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (8626)..(8626)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10453)..(10453)
<223> n is a, c, g, or t

<220>
<221> misc_feature

MON-0345.ST25.txt

<222> (10491)..(10491)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10501)..(10501)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10511)..(10511)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10545)..(10545)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10558)..(10558)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10574)..(10574)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10599)..(10599)
<223> n is a, c, g, or t

<400> 62
ttagctgctg aaacgctgct ttttagcaaa aggccgtgac ctcatgatgt tatacgtcgt 60
ggagattgag aaccagggcc tagcatctga ctatgtgctt tgagtccccca cttttgctgg 120
tttgtcaacc cagggtgagc ttctgtgac ttctgtgcc tcagtttctt catctgtgga 180
atggggccgg tcatagtccc cggttattgtg atcatcgagc aagatggta atggcgagca 240
cacagcatga tgccttagttc ttactggaac acctgtcctg ggtcaggggc tgttatataaa 300
gtactacctg ccaggatcaa cttgatccgg ttcttattctg tctcctgggt gagtatctgt 360
gccctttact cccagatgtt ggaaatgtca ggggcatgag acctgtcctt aaccgagtgg 420
cagaaggta agtttgtgtc cgagatagca ggacatgctt tctctacctc cgcaggcggt 480
tctcccaagac ccccccaggcc ccaccatgcc ctgttaggaa gggatcatcc taattctagc 540
ctcttcttcc gccccagagt tctgaagctt ctccacctgt ccaggtgttt ccccacccct 600
tcagccacgg caagaccgtc actatgtaaa tgtctgtca aatccccctgg tgtcaagctg 660
ccagctctct gatgaggcag ggccacctcc ggggacccct cacttcccag ccatgggacc 720
ccgggcccagg gaagtctgct gcttcatcat cctgcccgg ctcctggctg agccggctga 780
gaactcagac ttctacttgg ctggggatta cttcctcggc ggcctttca ccctccatgc 840
caacgtgaag ggcacgtcc acctaaccct cctgcaggtg ccccaagtgc aggagtgagt 900
cgccaatgtg gggctggaag tggcgacggg ggcggagtgg gaagcctggg ctggcctgt 960
gctcctcagg ggaccacgcc aggaccaagg gctcaaaatg ctcttcctca ttcattgcca 1020

| MON-0345.ST25.txt | |
|-------------------|--|
| acctctcatc | ccgcattatc cccaccggcc tgcagggaga ccccatgcag ttcatgttac |
| caaaatctt | ggcaattgta ttctgaata tggagagctg gttgtccgc cgtgtgtctt |
| aataaataaa | gagttacagg gtacttgagc ctggaggggt tgtagagacc acccccacct |
| actttgtcaa | gtgggaaact cctactgagt ccgtgtcaag tccaagtcta gacaccgggg |
| gttatgcctt | tggaaggcag aaatgtggtt ttcggtagc aggttctcag actggagggg |
| aaggttgca | tttctctagg gctgtggta ggtggaaagg ggtgcttcca ggaccagaag |
| ggatttcctc | cactcacctt gtcccctgtg agccctgggg gtggctgcat cactcaaggt |
| tgggtgagac | acctttgtgc aagtgcgaag gctggatgg cgacccagc gtggatgat |
| gagatagtga | cttgctgcag agagggtgaa ggcgtccctgt gagagaggga gagaaaaaaag |
| tctgtgacgt | cgggaaagat cacatgctgg cttgagaatg acgnnnnnnn nnnnnnnnnn |
| nnnnnnnnnn | nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn |
| nnngatgtgg | aggtgatrgt gatggcggtg attgtacgg tggatcggt gatggtggtc |
| acagacaacg | cagttatagt gatggcagtg gtgataggaa tagtaggtgg tgatggcat |
| tctggagatg | tggcaggtga caacgatgag atgaaaatgc cagaatcttc tggagtggtc |
| ccttcttgcg | ccactcctcg gcttcctat ggcaggcaga ggggactccc cggctctcct |
| gtcccttccc | cctctcactc tggacctgcc tctcacccca ccccacatgg ctcccccagg |
| tatgaaataa | aggtgttggg ctacgatctc atgcaggcca tgtgcttgc aggggaggag |
| atcaatagcc | agagcagcct gctgcctggc gtgctgctgg gctacaaaat ggtggatgtc |
| agctacatct | ccaacaatgt ccagccctgt ctccacttcc cggcaaaggaa ggactgttcc |
| ttgcccattcc | aggaggacta cagccactgt gtgccccgtg tggtggtctgt cattggtcct |
| ggcaactctg | agtccactgt gactgtggcc cgcttcctct ctctttccct cttccacag |
| gggaggcccc | tgggtcctgg ggtaaggagc tggggggcag aggagtggtt atccaggggg |
| ctcacttccc | cccaccggtc ctggggtag gaggaggcag gaagtaggggt cagaatgtca |
| accccaatcc | trggaaggca gcccagccac gtggtaaga gctcaggctt ggaggcagac |
| agacckgggn | nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngcct |
| tcagagagat | catcctntca agggggccct tattccttn cccctggag cccntcagtn |
| cccaccactt | tctgcagcnc ccattcgggt ctccgattcc tccaatccac tcactcgctg |
| tgtggctctg | gataagtgac tgtccctctc tgaacctcag cgtcctcattc tgcaaagtgg |
| agacataaca | gcacatcaga aggtcgcgag aataggggcg cctgggaggc tcagtcggtt |
| aagcatccga | ttctgggtcg cggctcaggt catgatctcc cggttcgtga gttcaagccc |
| cgcacatggc | tgtgtgctga cagcacagan cctgcttggg attctgtctt cccttctctc |
| tgcccctcac | ctgctttgc tctctctctc tcaaaataaa taaataaaact tttaaaaaaa |
| aaggaaggta | gtgagaaaaaa agcggtgtac agagatggag agggctccac gcgg tacctg |
| gcatgctgctg | agccctcaga acccgtagc gacgaaagtg acctgtgtgc gtcgtcacca |

| MON-0345.ST25.txt | |
|--|------|
| ccatcccagc aggccctgag gcttcgaccc tgcctcccc gcaaagctca cagtctccga | 3120 |
| ggctccggc cacgtcccc gggcgctctg tctgtgtccc tcgaaccccg cccagccctg | 3180 |
| ccgcaccgtg agctagtcag cgccctgctgg gttcgtgact ctctccgcca ttgtgcaccc | 3240 |
| tggggctggg gccacaccca ggggctccgg ttaatttaga tgctttctt ctctgccatc | 3300 |
| tgcttacccc cgagcttgggt tagagagcct gactttgctg ggagtctcca gaacgtcccg | 3360 |
| ggacctccca gcaaccagca tctttattct ccctcccttag aactgatgtg tgcagtcgct | 3420 |
| gtgcctctgc agctcagagc aggggtgggtt cctgtgaact ggggcccagg gtggttcct | 3480 |
| ggagggggca aggcacccgac tagccctcga agaaggagcc gggcttggct gaggtggac | 3540 |
| agggggagag catgaggtt tcggccagct ttctgtgcct gggAACCCCC tctccccaca | 3600 |
| accctggatc ccagaggcct taacggggccc cagctgtaac agactcgtct gtgtcgagca | 3660 |
| ttccacagta ggtgtccccca ggctccctcg gggccaccaa aggaccacaa cgacattacg | 3720 |
| cggacagggt ctcagattcc gatgggtccc ctgtttgctg gaaccatctc cctttggaaa | 3780 |
| tttacagctc tctttctgg cagtaacccc gccccttggt gctgggtacg aagggggcac | 3840 |
| ccagagcggg gctcaccagg cagcgctgac tgctgcgttg tcgggcta ac gggtattaac | 3900 |
| cgccctccctc gccgctccca ttctcttagc tgctgaaacg ctgctttta gcaaaggccg | 3960 |
| tgacctcatg atgttatacg tcgtggagat tgagaaccag gtcctagcat ctgactatgt | 4020 |
| gctttgagtc cccacttttgc tggttgtgc aacccagggt gagcttcgta agcttctctg | 4080 |
| tgccctcagtt ttctcatctg tggaaatgtgt gagggggaga cctcagttc aagcggggtg | 4140 |
| gccaggaggg ccttctgac aactggacaa cgacctgagg gagaggaagg agtgagggag | 4200 |
| ctatgtgggt gcctagaaga gcgcctccgaa agagggggca gcgaatgcag aggccggcag | 4260 |
| gagcctggtg cggtggctga accggtgagc agccccggga ccaggcggga cagtaggaga | 4320 |
| agatgaagcc agagaggtga gggccggggt cagtggtgga gccccttggg ggccactgaa | 4380 |
| ggactctggc tgtcctcgag tgacattagg agctgttggg gagtttgag ctgaggagta | 4440 |
| aggtagcggc caagtggtcg cagaggccac ccggctgcca cgaacagcag cagagacagc | 4500 |
| caaggggaag ggtggggggc tgtggtgacc ccgggagggt ggtgtatggtg gcccggtgag | 4560 |
| gccctagctc acgctggcgg ccctccgctc tccggcagat cacctacagc gccatcagt | 4620 |
| acgagctacg ggacaagcag cgcttccgg cccttctgcc cacagcgccg ggcggccatc | 4680 |
| accagatcga ggccatggtg cagctgtatgt tggacttccg ccggaaactgg atcatcgcc | 4740 |
| tggtgagcag cggcgactgc ggccgcgacg acagccagct gctcagcgat cgccggccg | 4800 |
| gcggcgacac ctgcatcgcc ttccgggaga cgctgccc at gcccagccc aaccaggcgg | 4860 |
| tgacgcagtggagc cgcctgaagg ccatcgatgg cggcagcag cggcagagct | 4920 |
| ctgcgcgcgt cgtggcctg ctgtcgccaa agctggcct gcacaacttc ttccgcgagg | 4980 |
| tgctccgcca gaacctcact ggcgtcgatc ggatcgccctc cgagtcctgg gccatcgacc | 5040 |
| cggcctcgca cgacaggccc acgcgtgca cagcctccctg ggctgcaccc agaccagcag | 5100 |

| MON-0345.ST25.txt | |
|--|------|
| ctccgggtcg tctatccctg gcaggtgagg ccccacccac ggagagtcgg ggccacacac | 5160 |
| gcaggcgcgg ccacagccct gagtggttgc catggagacc actgccctgc tctagcgtcc | 5220 |
| ccctctctgg ccgggtcctg ggcaaactgg cgggagaggg caggggacgt accctgtccc | 5280 |
| cagacacata aagccagaag tgcttcatgg tgacaaaact cctttttta cattaatgtat | 5340 |
| atcctcgcca tccaagatag cctgtcccg caggagattt gggtaagtt tcctggaagg | 5400 |
| aggcctggca ggcagtgggc cccctggcc ccctgcgtt tctccagggt ggcggccttgg | 5460 |
| ggggaggact tctgtgttca gctctctgag gctctgctt gggtttatgc atcttcttc | 5520 |
| gtcccaggta tggacgattc agaggagtaa ggaggcaagg agtcgcctgg attcagac | 5580 |
| ggaatttaaa tctgtatTTT tctgatctgc gtgcacaccc ggcgtgcac acacacacac | 5640 |
| ctaaccacga agtttatgtat ggtagaagat ttactgagg gggcgcctgg gtggctcagt | 5700 |
| cggtaagcg tccgacttca gccaggtcac gatctcgccg tctgtgagtt cgagccccgc | 5760 |
| gtcaggctct gggctgatgg ctcccccccc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn | 5820 |
| nnnnnnnnnnn agcaccccgaa gggcccgaaaa gaggcacct gagccgtaa agggaaacag | 5880 |
| gagtggcctc tgaacccagg ttaggtctt ccgctggatg gcagacgtga ctccacggg | 5940 |
| agcaggaata atgtcgacac atcgccggaa agggagcac ttcctgggtgt gcagtcattt | 6000 |
| tgctaagctc ccaacattgg gaaactcatg cggtgcttca gagccggaa gacagggttt | 6060 |
| ttgttgtcct actttacaga agaggagact ggagctcacg ggggttggc gacaggccc | 6120 |
| aggctcagag caggtggcag agctggtgcc tgaacccagg ttagtctgac tacagagcc | 6180 |
| gggctcccg ccgctgcctc ccgggtgacc acatctgcgg ttcattggcc cccttggtagg | 6240 |
| gatgtggaca cccagtctcg tgggttagtc actctcccc ggatcgagcc cgacttctt | 6300 |
| ttttttttttt aatttttttt tcaacgttta tttatttttgg gacagagag agacagagca | 6360 |
| tgaatggcgg agggcagag agagagggag acacagaatc gaaacaggg tccaggctcc | 6420 |
| gagccatcag cccagacccct gatgcggggc tcgaactcac ggaccgcgag atcgtgac | 6480 |
| ggctgaagtc ggacacttac ccgaatgcgc cacccagggg cccagatcga gcccacttc | 6540 |
| tgacgccagc gtcgcttcct ttccctgtgg cctccagct gttcaggaa atctggagg | 6600 |
| tcaacttcac ctcctggc caccagatct ttttgacca gcgaggggac ctactcatgc | 6660 |
| gcctggagat catccagggc cgggtggacc tgagccagaa ctttctggc gcgtgcctc | 6720 |
| ctactgcccgt gtgctacgac ggctgaggc catccgtac gtctcctggc acacggccaa | 6780 |
| caacacggc agctctcgga gggctgggtgg gggctggga cttgggtctg ggcactggc | 6840 |
| cgtgcagggg tggcaagggc cctgtggacc tgagatccat tatcgagcac tgatgtcatc | 6900 |
| cctatttgg tttgtccctc ctcccattga ctaagcaactg tggaaagtcta gagtttctg | 6960 |
| gatcctcagg acccaggggc tcagggggct gcacaaagtg aacgttaggt ggacacgtgt | 7020 |
| gtgctaagga cttcaattct catgtcaacc ctagaaata gagagtactg ttccctgt | 7080 |
| ctttgggtt gggaaactgg aggcacagag ggggtcgcgt gaccataaa aggccacaca | 7140 |

MON-0345.ST25.txt

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|------|
| gctttcgcat | gtctctatac | acagcattca | gtctacatcc | catcgattag | tactcgcgtt | 7200 |
| ttggggacag | tagctgtgcc | ttcacctgtg | tctgacatct | gtcagtctga | aagctcctt | 7260 |
| gttttaccct | cttagcttac | aagctgtcag | aatggccgcb | atgtggggaa | ggtagagact | 7320 |
| cagcctcgtg | gggaaggggg | gaggtggggg | gacctaaaag | ttcaaagagc | cagggcacct | 7380 |
| gggtggctca | gtcagttaag | catccgactc | tggatctcag | ctcagtcttg | atctcaggtc | 7440 |
| gtgagtttag | accctgtgt | agggctccgt | gctgggcgcg | cagcctactt | aaaaataata | 7500 |
| aaaacaaaag | cnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnngatcccc | 7560 |
| gtgtccatgt | gttccaagga | ctgccagcct | gggcaaagga | agaagcccgt | gggtattcat | 7620 |
| ccctgctgct | tcgagtgtct | cgactgcctt | ccgggcacct | tcctcaacca | aactgcagat | 7680 |
| gggactcaca | gaccacacacc | cctgccctgc | cctgccctgc | cccgccctgg | ggctcccagg | 7740 |
| gcccttcatc | tttggcaggg | tctctggagt | ctcatccagg | ggacacaggt | gtccaaaggc | 7800 |
| cagggaccat | gttttgactc | cgcttgtatc | tccctaaccg | ctggtgtaag | aaaaatcttc | 7860 |
| aatgctgtga | gggcgtgggg | gtgggagaag | gaacagccct | caaccaggcg | aggctgtaac | 7920 |
| tgatccctc | tgcacacaca | tgtagctgag | ggcccagggg | ggtcaggcca | gagaatgtcc | 7980 |
| accggatgaa | cgaacgaatg | aatgaatgaa | cgaacgaaca | aacacacaaa | tgaatgaatg | 8040 |
| tctctgtccg | tagaagaaat | gtttctggca | gacaggccta | ggatctaatt | tctctctgtg | 8100 |
| gcctcccgag | tgcctcgtgt | agttcggagc | atataatgtt | tgctcagtga | atgtttattg | 8160 |
| agtgacatcc | ttgatgagaa | gaattgacat | ctccccctat | agatcataaa | ctccaggaaa | 8220 |
| ggggggacaa | tgtcatccct | ccagtgttta | ccacagttca | ccgtggggc | cgaattatTT | 8280 |
| ttttttcatg | acttcacaga | ttagtaacta | agcggttctg | tacatctacc | gatcagagta | 8340 |
| cttacgacgt | gcccagcaga | gcccagggca | caggtaggt | gctcaacaaa | agtttgggg | 8400 |
| caattgatca | gtagccggaa | gtcagggggc | tcggtttat | ccacgtctgt | gctctccatc | 8460 |
| tcagatgcct | atcacagtgg | gtggcgctca | aaaagaaaact | tgaataaacf | gtcgaatgtc | 8520 |
| catctcacca | gagggtacgg | tcttggagg | gaggcattac | ggttgccagg | ctctcagtca | 8580 |
| aggggacctt | ggaccacatc | ctgcctctgt | aactggttt | gtaacngcct | ggaggagcct | 8640 |
| cagatgccac | atctgtgaaa | tggggttgca | gtgaggatct | gatggggccgg | tggatacgag | 8700 |
| ggacgcagtg | agaggtgcta | cgaccgcagg | catcgccctt | ggctcgcccc | ctccctaccc | 8760 |
| ctacagccgg | ccgggtgcag | gtgcagagga | tgtgggtgcc | ggaaagggtgg | gtgtatctga | 8820 |
| tggaactgct | gtgggctctt | gcagacgagt | ttggctgccc | gccctgcccc | agttgcgggt | 8880 |
| ggtcccgag | gaacgacgct | tcgtgcttca | agcggcggct | ggcctccctt | aatgacgct | 8940 |
| aggcacccgc | cgtcgctgt | gccgtgtgt | ccatcctggg | ctccctctgc | accctggcca | 9000 |
| tcctgggtat | cttctggagg | caccgccacg | cgcctatggt | tcgctcgccc | ggggccccca | 9060 |
| ggtgcttccc | gatgccgatg | ccctgctgt | ataggtgacg | gtctccatgt | acatcggca | 9120 |
| gccccgcgtt | ttcatgtgcc | tcggccacca | gacccttctc | accctctgct | tcaccgtctg | 9180 |

MON-0345.ST25.txt

| | | | | | | | |
|------------|------------|------------|------------|------------|-------------|------------|-------|
| tatctccgt | gtcaccgtgc | gctttcca | gatcgccgc | gtttcaaca | tggccaggcg | 9240 | |
| cctccgcgt | gcctacggct | actgggtccg | ctaccacggg | ccctgtgtct | tcgtggcg | 9300 | |
| cttacggtg | ctcaagatgg | tcatcggtgc | gggcaacgtg | ctggccgcga | ccgcccagcc | 9360 | |
| cgccgcccgc | cccgaccccg | atgacccaa | gatcgccgtt | ctcgccgtca | actaccacaa | 9420 | |
| cgtgctcctg | ttcgacacca | gcctggaccc | gcttctgtcc | gtggcgggct | tcggcttcgc | 9480 | |
| ctacgtggc | aaggagctgc | ccaccaccca | caacgaggcc | aagttcttca | cttccgcata | 9540 | |
| gacttctac | ttcaccttt | ccatctccct | ctgtaccc | atgtctgtct | acgagggggt | 9600 | |
| cctggtcacc | atcctgcacc | tcgtggtggc | agtgctcaac | cttctggcgc | ctttggcccc | 9660 | |
| tgggctactt | cggccccaag | tgctgcgtgg | tcctttcta | ccggatcac | aacacgccc | 9720 | |
| tctacttcag | cagcatgatt | cagggctaca | ccaccggaa | ggactagcac | tgccccctgg | 9780 | |
| ctgcccaggg | ggccagaggg | ctcggtactg | ggagatggag | accaggggtg | gggctggggg | 9840 | |
| tggtgtgac | tcattcagcc | cctgctggga | gcagggacac | cacccgc | tactctctga | 9900 | |
| tttggcctcc | ccctccaggt | tctctgcacc | ctggccgtt | ttacccaccc | gctgggtgat | 9960 | |
| gcctaaaaat | acgctttccc | tgcagccgtt | tggcttgcca | ggcactgcca | cccatgctag | 10020 | |
| ggaaaggagc | cggggtgacc | tccctatggg | tctccaagac | agagatggag | cgaagcagcc | 10080 | |
| cacagtgc | atctgggtgt | cacagcgggt | gtccgcaggt | tccggctccg | ggcagccatg | 10140 | |
| ctggaaggct | gggctggggc | tggtgttggg | ggacatctgc | ccggcatcat | tcactcc | 10200 | |
| cccacgtgtc | tgcgcctcac | ctcccagact | ccccggcccc | ccagcttggg | acccagctt | 10260 | |
| ggacc | cagct | tctctgagtc | atggctgcgc | atagggctg | cttcataaat | gcttatgaat | 10320 |
| aaacctccct | tgggtgaaac | gaaggcg | ttt | tccagaggtt | ccccctcc | 10380 | |
| ccccccg | tc | gccaagaa | agaagactgg | gatcagagac | ctcagcttcc | atttccgcgt | 10440 |
| tgccacttct | ganccgtgta | cttgggcca | attctattta | ctgtttcgga | ncctacacgg | 10500 | |
| ncctttcct | naaataggaa | caataaacca | ggggcacctt | tgacnactg | tgttagtancc | 10560 | |
| aatttgacga | taanttttt | taaaagatta | aattaatcng | ataaaatt | | 10607 | |

<210> 63
<211> 1176
<212> DNA
<213> Felis catus

<400> 63
atgggacccc gggccagggg agtctgctgc ttcatcatcc tgccgcggct cctggctgag 60
ccggctgaga actcagactt ctacttggct gggattact tcctcggcgg cctttcacc 120
ctccatgcca acgtgaaggg catcgccac ctcaacctcc tgcaggtgcc ccagtgcag 180
gagttataaa taaagggttt gggctacgt ctcatgcagg ccatgtgctt tgcagggag 240
gagatcaata gccagagcag cctgctgcct ggcgtgctgc tgggctacaa aatggtggat 300
gtcagctaca tctccaacaa tgtccagccc gtgctccact tccggcaaa ggaggactgt 360
tccttgcaca tccaggagga ctacagccac tgcgtgcggc gtgtggtggc tgcattgg 420

MON-0345.ST25.txt

| | | | |
|-----------------------|-----------------------|-----------------------|------|
| cctggcaact ctgagtcac | tgtgactgtg gcccgttcc | tctctcttt ctccttcca | 480 |
| cagatcacct acagcgccat | cagtgacgag ctacggaca | agcagcgctt cccggccctt | 540 |
| ctgcccacag cgccgggcgc | cgatcaccag atcgaggcca | tggtgagct gatgttgac | 600 |
| ttccgcccga actggatcat | cgcgctggtg agcagcggcg | actgcggccg cgacgacagc | 660 |
| cagctgctca gcgatcgccc | ggccggcggc gacacctgca | tcgccttccg ggagacgctg | 720 |
| cccatgcccc agcccaacca | ggcggtgacg cagtggagc | gccggcgct gaaggccatc | 780 |
| gtggacgagc agcagcggca | gagctctgca cgcgtcggt | tcctgctgtc gccaaagctg | 840 |
| gtcctgcaca acttcttccg | cgaggtgctc cgccagaacc | tcacggcgt cgtcggatc | 900 |
| gcctccgagt cctggccat | cgacccggtc ctgcacgaca | ggcccacgca ctgcacagcc | 960 |
| tcctgggctg cacccagacc | agcagctccg ggtcgctat | ccctggcagg tgaggcccc | 1020 |
| cccacggaga gtcggggcca | cacacgcagg cgccgcaca | gccctgagtg gttgccatgg | 1080 |
| agaccactgc cctgctctag | cgtccccctc tctggccggg | tcctggcaa actggcggga | 1140 |
| gaggccaggg gacgtaccct | gtccccagac acataa | | 1176 |

<210> 64

<211> 391

<212> PRT

<213> Felis catus

<400> 64

| | | | |
|---|---|----|----|
| Met Gly Pro Arg Ala Arg Glu Val Cys Cys Phe Ile Ile Leu Pro Arg | | | |
| 1 | 5 | 10 | 15 |

| | | |
|---|----|----|
| Leu Leu Ala Glu Pro Ala Glu Asn Ser Asp Phe Tyr Leu Ala Gly Asp | | |
| 20 | 25 | 30 |

| | | |
|---|----|----|
| Tyr Phe Leu Gly Gly Leu Phe Thr Leu His Ala Asn Val Lys Gly Ile | | |
| 35 | 40 | 45 |

| | | |
|---|----|----|
| Val His Leu Asn Leu Leu Gln Val Pro Gln Cys Lys Glu Tyr Glu Ile | | |
| 50 | 55 | 60 |

| | | | |
|---|----|----|----|
| Lys Val Leu Gly Tyr Asp Leu Met Gln Ala Met Cys Phe Ala Gly Glu | | | |
| 65 | 70 | 75 | 80 |

| | | |
|---|----|----|
| Glu Ile Asn Ser Gln Ser Ser Leu Leu Pro Gly Val Leu Leu Gly Tyr | | |
| 85 | 90 | 95 |

| | | |
|---|-----|-----|
| Lys Met Val Asp Val Ser Tyr Ile Ser Asn Asn Val Gln Pro Val Leu | | |
| 100 | 105 | 110 |

| | | |
|---|-----|-----|
| His Phe Pro Ala Lys Glu Asp Cys Ser Leu Pro Ile Gln Glu Asp Tyr | | |
| 115 | 120 | 125 |

| | |
|---|--|
| Ser His Cys Val Pro Arg Val Val Ala Val Ile Gly Pro Gly Asn Ser | |
| Page 72 | |

MON-0345.ST25.txt

| | | |
|---|-----|---------|
| 130 | 135 | 140 |
| Glu Ser Thr Val Thr Val Ala Arg Phe Leu Ser Leu Phe Leu Leu Pro | | |
| 145 | 150 | 155 160 |
| Gln Ile Thr Tyr Ser Ala Ile Ser Asp Glu Leu Arg Asp Lys Gln Arg | | |
| 165 | 170 | 175 |
| Phe Pro Ala Leu Leu Pro Thr Ala Pro Gly Ala Asp His Gln Ile Glu | | |
| 180 | 185 | 190 |
| Ala Met Val Gln Leu Met Leu Tyr Phe Arg Arg Asn Trp Ile Ile Ala | | |
| 195 | 200 | 205 |
| Leu Val Ser Ser Gly Asp Cys Gly Arg Asp Asp Ser Gln Leu Leu Ser | | |
| 210 | 215 | 220 |
| Asp Arg Pro Ala Gly Gly Asp Thr Cys Ile Ala Phe Arg Glu Thr Leu | | |
| 225 | 230 | 235 240 |
| Pro Met Pro Gln Pro Asn Gln Ala Val Thr Gln Trp Glu Arg Arg Arg | | |
| 245 | 250 | 255 |
| Leu Lys Ala Ile Val Asp Glu Gln Gln Arg Gln Ser Ser Ala Arg Val | | |
| 260 | 265 | 270 |
| Val Val Leu Leu Ser Pro Lys Leu Val Leu His Asn Phe Phe Arg Glu | | |
| 275 | 280 | 285 |
| Val Leu Arg Gln Asn Leu Thr Gly Val Val Arg Ile Ala Ser Glu Ser | | |
| 290 | 295 | 300 |
| Trp Ala Ile Asp Pro Val Leu His Asp Arg Pro Thr Arg Cys Thr Ala | | |
| 305 | 310 | 315 320 |
| Ser Trp Ala Ala Pro Arg Pro Ala Ala Pro Gly Arg Leu Ser Leu Ala | | |
| 325 | 330 | 335 |
| Gly Glu Ala Pro Pro Thr Glu Ser Arg Gly His Thr Arg Arg Arg Arg | | |
| 340 | 345 | 350 |
| His Ser Pro Glu Trp Leu Pro Trp Arg Pro Leu Pro Cys Ser Ser Val | | |
| 355 | 360 | 365 |
| Pro Leu Ser Gly Arg Val Leu Gly Lys Leu Ala Gly Glu Ala Arg Gly | | |
| 370 | 375 | 380 |
| Arg Thr Leu Ser Pro Asp Thr | | |
| 385 | 390 | |

MON-0345.ST25.txt

| | |
|----------------------------|----|
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 65 | |
| taaacaactc cacggccctg ctgc | 24 |
| <210> 66 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 66 | |
| cccagggta tgttggcag cagg | 24 |
| <210> 67 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 67 | |
| gctgtgtatg cggtggcca tggc | 24 |
| <210> 68 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 68 | |
| ccagtagctg gtggaggcca tggg | 24 |
| <210> 69 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 69 | |
| tgctgaccaa cctgactggc aagg | 24 |
| <210> 70 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 70 | |

tctgaggcga cccacacacctt gccaa

<210> 71
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 71
ccagttcagc taaacataaaa ttag

<210> 72
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 72
gccactggat tttggtctca ttta

<210> 73
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 73
agctaaacacg ctgctgctgc tgct

<210> 74
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 74
agcagtccca agcagcagca gcag

<210> 75
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 75
tgtgtcacct tcagcctgct cttc

<210> 76
<211> 24
<212> DNA
<213> Artificial Sequence

MON-0345.ST25.txt

| | | |
|-------|-----------------------------|----|
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 76 | |
| | tccaggacac gaagttgaag agca | 24 |
| <210> | 77 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 77 | |
| | tacttcggcc ccaagtgcta catg | 24 |
| <210> | 78 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 78 | |
| | ccgggttagaa gaggatcatg tagc | 24 |
| <210> | 79 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 79 | |
| | tggtcaccat cgtggacctc ttgg | 24 |
| <210> | 80 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 80 | |
| | aggttgagca cagtgaccaa gagg | 24 |
| <210> | 81 | |
| <211> | 24 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 81 | |
| | accaactaca acgaggccaa gttc | 24 |
| <210> | 82 | |

MON-0345.ST25.txt

| | |
|-----------------------------|----|
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 82 | |
| tcatgctgag ggtgatgaac ttgg | 24 |
| <210> 83 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 83 | |
| tccgagtcct gggccatcga cccg | 24 |
| <210> 84 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 84 | |
| tgagggttgtg caggaccggg tcga | 24 |
| <210> 85 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 85 | |
| tacaacctca tgcaggccat gcgc | 24 |
| <210> 86 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 86 | |
| tctcctccac cgcgaaagcgc atgg | 24 |
| <210> 87 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic Construct | |
| <400> 87 | |

atcaccatcc agagcgtgcc catc

<210> 88
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 88
actcaactgaa gcccgggatg ggca

<210> 89
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 89
accaccacgt cgaggccatg gtgc

<210> 90
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 90
aagtgcagca tcagctgcac catg

<210> 91
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 91
tcrgacttct acctgcctgg rga

<210> 92
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 92
cttcacgttg gcatggaggg

<210> 93
<211> 21
<212> DNA
<213> Artificial Sequence

MON-0345.ST25.txt

| | | |
|-------|---------------------------|----|
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 93 | |
| | tacccctgg gtggcctttt c | 21 |
| <210> | 94 | |
| <211> | 20 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 94 | |
| | tcttgcacwk gggcacctgc | 20 |
| <210> | 95 | |
| <211> | 22 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 95 | |
| | agggttgtggg ctacaacctt at | 22 |
| <210> | 96 | |
| <211> | 21 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 96 | |
| | gggcakgtag tggctgttagt c | 21 |
| <210> | 97 | |
| <211> | 22 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 97 | |
| | ggctacaacc tsatgcaggc ca | 22 |
| <210> | 98 | |
| <211> | 22 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic Construct | |
| <400> | 98 | |
| | gagttgtcag ggccaatgac cg | 22 |
| <210> | 99 | |

MON-0345.ST25.txt

<211> 2598
<212> DNA
<213> Felis catus

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| <400> | 99 | | | | | |
| atgcccggcc | tcgctctcct | gggcctcacg | gctctcctgg | gcctcacggc | tctcttggac | 60 |
| cacggggagg | gcgcaacgtc | ctgcttgta | cagcagctca | ggatgcaggg | ggactatgtg | 120 |
| ctgggtggc | tcttccctct | gggctctgcc | gagggtacag | gtcttggcga | cgggctgcag | 180 |
| ccaaatgcca | ccgtgtcac | caggttctcg | tctctggcc | tgctctggc | gctggccgtg | 240 |
| aagatggcgg | tggaggagat | caacaacggg | tcggccctgc | tgcccgggct | gcacctggc | 300 |
| tatgacctct | ttgacacgtg | ttcagagccc | atggtggcca | tgaagcccag | cctcgtgttc | 360 |
| atggccaaag | caggcagctg | cagcattgcc | gcctactgca | attacacaca | gtaccagccc | 420 |
| cgcgtgctgg | ccgtcatcg | gccccactcg | tctgagctcg | ccctcgtcac | cggcaagttc | 480 |
| ttcagcttct | tccttgtgcc | tcaggtcagc | tacggcgc | gcaccgaccg | gctgagcaac | 540 |
| cgggagatct | tcccgtcctt | cttccgcacg | gtgcccagcg | accaggtgca | ggtggcggcc | 600 |
| atggtggagc | tgctggagga | gctcggctgg | aactgggtgg | cggcggtg | tagtgcac | 660 |
| gagtatggcc | ggcagggcct | gagcctcttc | tccggcctgg | ccagcgc | gggcatactgc | 720 |
| atcgcgcatg | agggccttgt | gccactgccc | ccaggcagcc | tgccggctgg | cgcctacag | 780 |
| ggcctgctgc | gccaggtgaa | ccagagcagc | gtgcaggtgg | tggtgctgtt | ctcctccgc | 840 |
| cacgcggccc | gcaccctctt | cagctacagc | atccgctgca | agctctcacc | caaggtgtgg | 900 |
| gtggccagcg | aggcctggct | gacccagac | ctggcatg | cgctgcccgg | catgcctgg | 960 |
| gtggccaccg | tgctggcctt | cctgcagcag | ggcgccccga | tgccggagtt | cccatccctac | 1020 |
| gtgcggaccc | gcctggccct | ggccgctgac | cctgccttct | gcgcctcgct | ggacgctgaa | 1080 |
| cagccaggcc | tggaggagca | cgtgggggg | ccacgctg | ccaaatgtga | ccacgtcacg | 1140 |
| ctagagaacc | tatctgcggg | gctgctgac | caccagac | tcgctgccta | cgcggctgtg | 1200 |
| tatggcgtgg | cccaagccct | tcacaacaca | ctgcgcgtca | atgcctcg | ctgccccagg | 1260 |
| cgggagcctg | tgcggccctg | gcagctccta | gagaacatgt | acaacgtgag | cttccgtgt | 1320 |
| cgcggcctgg | cactgcagtt | cgacgcccagc | gggaacgtga | acgtggatta | cgacctgaaa | 1380 |
| ctgtgggtgt | ggcaggaccc | gacgcccag | ctgcgcaccg | taggcac | caagggccgc | 1440 |
| ctggagctct | ggcgctctca | gatgtgctgg | cacacgcccgg | ggaagcagca | gcccgtgtcc | 1500 |
| cagtgc | ggcagtgc | ggaaggccag | gtgcgcgc | tgaaggcgtt | ccactcttgc | 1560 |
| tgttacaact | gcgtggactg | caaggcgggc | agttatcagc | gcaacccaga | tgacccctc | 1620 |
| tgcacccagt | gtgaccagga | ccagtggtcc | ccagaccgga | gcacacgctg | cttcgcccgc | 1680 |
| aagcccatgt | tcctggcatg | gggggagcca | gctgtgctgc | tactgctgc | gctgctggct | 1740 |
| ctggcgctgg | gcctggcgct | ggcagccctg | gggctcttcc | tctggcactc | ggacagcccgg | 1800 |
| ctgggttcagg | cctcaggtgg | gccacgggccc | tgcttggcc | tggcttg | ggccctggc | 1860 |
| tgcctcagtg | tcctcctgtt | ccctggccag | ccaggccctg | ccagctgcct | ggccagcag | 1920 |

MON-0345.ST25.txt

| | |
|--|------|
| ccactgttcc acctcccact cactggctgc ctgagcacgt ttttcctgca agcggccgag | 1980 |
| atatttgtgg ggtcgagact gccaccaagc tgggctgaga agatgcgtgg ccgcctgcgg | 2040 |
| gggcctggg cctggctggt ggtgctgctt gctatgtgg cagaagccgc attgtgtgcc | 2100 |
| tggtacctgg tagccttccc gccagaggtg gtgacggact ggcgggtact gcccacagag | 2160 |
| gcgctgggtgc actgccacgt gcactcctgg atcagcttcg gcctggtgca tgccactaac | 2220 |
| gccatgctgg ctttcctctg cttcctggc actttcctgg tgcagagccg gccaggccgc | 2280 |
| tacaatggtg cccgcggcct caccttgcct atgctggcct acttcatcac ctggatctcc | 2340 |
| tttgcgtcccc tctttgccaa tgtgcacgtg gcctaccagc ctgccgtgca gatgggcacc | 2400 |
| atcctcctct gtgcctggg tatccttagcc accttccacc tgcccaagtg ctacctgctg | 2460 |
| ctgcagcggc cgagactcaa cacccctgag ttcttcctgg aagacaatgc cagagcacag | 2520 |
| ggcagcagtt gggggcaggg gaggggagaa tcggggcaaa aacaagtgac acccgatcca | 2580 |
| gtgacacctac cgcaagtga | 2598 |